

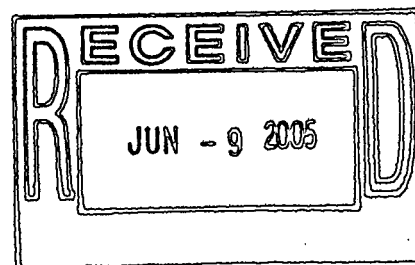
**ROCKY FLATS ENVIRONMENTAL  
TECHNOLOGY SITE**

**Decommissioning  
Closeout Report**

**771 Closure Project**

**Revision 0**

**May 2005**



**ADMIN RECORD**

**B771-A-000318**

*1/15*

## Table of Contents

<b>TABLE OF CONTENTS .....</b>	<b>2</b>
<b>1.0 INTRODUCTION .....</b>	<b>4</b>
1.1 BUILDING DESCRIPTION AND HISTORY .....	5
1.2 VERIFICATION THAT DOP REQUIREMENTS WERE MET .....	9
<b>2.0 PROJECT DESCRIPTION .....</b>	<b>10</b>
2.1 DISMANTLEMENT SETS .....	10
2.2 DECOMMISSIONING AREAS .....	16
<b>3.0 SCHEDULE .....</b>	<b>18</b>
3.1 PROJECT MILESTONES .....	18
<b>4.0 CHARACTERIZATION .....</b>	<b>19</b>
4.1 RECONNAISSANCE LEVEL CHARACTERIZATION .....	19
4.2 IN-PROCESS CHARACTERIZATION AND PRE-DEMOLITION SURVEYS .....	20
<b>5.0 COMPONENT REMOVAL ACTIVITIES .....</b>	<b>20</b>
5.1 SIZE REDUCTION AND COMPONENT DECONTAMINATION .....	21
5.2 VENTILATION SYSTEMS .....	22
5.3 ROOM 141 .....	23
5.4 COMPONENT REMOVAL DOCUMENTATION .....	24
<b>6.0 STRUCTURAL DECONTAMINATION AND PRE-DEMOLITION SURVEYS .....</b>	<b>25</b>
6.1 HYDRO-LASING SYSTEM .....	26
6.2 PRE-DEMOLITION SURVEYS .....	27
6.2.1 Areas Above Minus Six Feet of Final Proposed Grade .....	28
6.2.2 Areas Beneath Minus Six Feet of Final Proposed Grade .....	28
6.2.3 Chemical Constituents .....	29
6.2.4 Independent Verification of Surveys .....	29
6.2.5 Pre-Demolition Survey Documentation .....	29
<b>7.0 DEMOLITION .....</b>	<b>30</b>
7.1 DEMOLITION PREPARATORY ACTIVITIES .....	30
7.1.1 Backfill of Areas Prior to Demolition .....	30
7.2 DEMOLITION EQUIPMENT .....	31
7.3 STACK DEMOLITION .....	31
7.4 BUILDING 771 AND 774 DEMOLITION .....	31
7.4.1 Removal of Contaminated Sections Above Minus Six Feet of Final Proposed Grade .....	32
7.4.2 Sections Beneath Minus Six Feet of Final Proposed Grade .....	32
7.4.3 Materials Released for Recycling .....	33
7.4.4 Air Monitoring .....	34
7.4.5 Dust and Run-off Controls .....	34
7.4.6 Type 2 Out-Buildings and Tanks .....	34
7.5 DEMOLITION DOCUMENTATION .....	35
<b>8.0 WASTE DISPOSITION .....</b>	<b>36</b>
<b>9.0 SITE RESTORATION .....</b>	<b>37</b>
9.1 UNDER BUILDING CHARACTERIZATION AND REMEDIATION .....	37
9.2 FINAL LAND CONFIGURATION .....	37
9.3 DOP VERIFICATION SURVEYS .....	38

10.0 RCRA CLOSURE SUMMARY .....	38
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## ATTACHMENTS

Attachment 11.1 - Building 771/774 Summary Schedule .....	40
Attachment 11.2 - Building 771 First Floor Equipment Layout.....	44
Attachment 11.3 - Room 141 (Infinity Room) Post-Removal Survey Results.....	45
Attachment 11.4 - Building 771 Structure Remaining Beneath Minus Six Feet.....	46
Attachment 11.5 - Building 771 Random In-Situ Gamma Spectrpscopy Survey Results .....	47
Attachment 11.5a-Building 771 Survey Results .....	48
Attachment 11.6 - Building 774 Rooms 102, 103, and 241 Survey Data.....	49
Attachment 11.7 - Building 771 First Floor Dismantlement Sets Drawing .....	50
Attachment 11.8 - Building 771 Second Floor Dismantlement Sets Drawing .....	51
Attachment 11.9 - Building 771 First Floor Decommissioning Areas Drawing .....	52
Attachment 11.10 - Building 771 Scond Floor Decommissioning Areas Drawing .....	53
Attachment 11.11 - Building 774 Dismantlement Sets .....	54
Attachment 11.12 - Professional Engineer Certification RCRA Unit Closure.....	55
Attachment 11.13 - Building 771 Administrative Record Index .....	56

## 1.0 Introduction

In accordance with the 771 Closure Project Decommissioning Operations Plan (DOP), this closeout report was prepared to summarize the decommissioning and demolition of Type 2 and Type 3 buildings<sup>1</sup> in the Building 771 Closure Project. All of the information and attachments contained in this report were prepared to document the adequacy of decommissioning and demolition activities.

Building 771 was one of six Type 3 buildings at the Rocky Flats Environmental Technology Site (RFETS). It was heavily contaminated as a result of almost 50 years of processing and operating history, a 1957 fire, and numerous leaks and spills of contaminated solutions.

Buildings 714, 728, 770, 774, 775, and 771C were Type 2 buildings. Although originally characterized a Type 2 facility, Building 774, a liquid waste processing facility, was highly contaminated. Remaining Type 2 facilities were found to contain only residual levels of contamination or were uncontaminated.

There were eleven (11) Type 2 tanks: 176, 182, 183, 184, 185, 194, 195, 292, 293, 774A, and 774B. Remaining facilities in the 771 Closure Project were Type 1 facilities and will not be addressed in this report.

Also not addressed in this report are deactivation activities, which included draining and treating thousands of liters of contaminated process solutions that remained in process piping and tanks. Deactivation activities were not in the scope of the DOP.

Section 10.4 of the DOP included a tentative closure report outline, which was subject to change upon project completion. The outline was modified slightly to better address decommissioning activities performed. The content of this report will include:

- Introduction including building history and description
- Verification that DOP requirements were met
- Summary of decommissioning activities including key milestone dates
- Summary of demolition activities
- Waste disposition summary
- Demolition summary
- Site restoration including a description of Under-building Characterization (UBC) that was performed in 2001 and 2002
- Resource Conservation and Recovery Act (RCRA) closure summary
- Attachments, including the Administrative Record (AR) index

Building 771/774 documentation that was submitted for inclusion in the AR will not be included in this report. AR documents will instead be referred to by number in this report and a copy of the AR index included in Attachment 11.15. This closeout report will be submitted to the Department of Energy (DOE) and the Lead Regulatory Agency (LRA). It will also be included in the 771 closure project administrative record post-decisional file.

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<sup>1</sup> During scoping characterization, facilities were "typed" according to levels of contamination. Type 3 facilities were expected to contain significant contamination, Type 2 facilities were expected to contain some contamination, and Type 1 facilities were not contaminated.

## **1.1 Building Description and History**

### **1.1.1 Building 771**

Building 771 was located in the north-central section of the Rocky Flats Site. The building was constructed predominantly of reinforced concrete with some non-production portions of the building constructed of concrete block and fabricated metal. The original building was a two-story structure built into the side of a hill with most of three sides covered by earth. The fourth side, facing north, provided the main entrance to the building. The original building measured 262 feet (north to south) by 282 feet (east to west) on the ground floor and 202 feet by 282 feet on the second floor. The building was 31 feet tall and there were no outside windows in the main building.

Construction of Building 771 began in 1951. The building was designed to perform aqueous recovery of plutonium from residues and to conduct foundry casting operations to produce components for nuclear weapons.

Building 771 operations began in May, 1953. Operations included plutonium recovery, plutonium special recovery, plutonium chemistry, plutonium metallurgy research, and the analytical laboratory. Plutonium recovery operations processed a variety of plutonium-bearing residues to recover as much plutonium as was economically feasible. Significant quantities of americium were also recovered. Special recovery operations processed scrap metal and oxide residues containing elements and isotopes that could have otherwise contaminated or diluted the plutonium stream. Plutonium recovery research and development groups in Building 771 developed new methods for recovering, separating, and purifying actinides from acidic streams. The plutonium metallurgy group assisted agencies and plant production with weapons design. Liquid and solid samples were received by or prepared in the Building 771 analytical laboratories. Samples were analyzed for plutonium, americium, uranium, neptunium, and other radioactive isotopes. The laboratory was also used to analyze solutions for normality and for impurities present in the process streams.

The first shipments of plutonium arrived in 1953 from the Hanford site in Richland, Washington in the form of plutonium nitrate, a liquid. Occasionally Building 771 received shipments of nitrate, plutonium metal, and plutonium dioxide from the Oak Ridge Site in Tennessee and the Savannah River Site in Georgia. Early shipments arrived by rail. By about 1959, these shipments diminished and the majority of Building 771 feed material resulted from site returns.

Building 771 plutonium recovery and purification processes were characterized in terms of slow and fast processes. Compared to the fast process, the slow process received returns and residues with more impurities. Slow processes included incineration, dissolution, solvent extraction, cation exchange, and anion exchange. Incineration reduced plutonium-bearing combustibles to ash, a step that allowed recovery from wipes, filters, and plastics that were previously discarded. In dissolution, ash and other residues were dissolved in nitric acid to create a solution suitable for solvent extraction, which was used until about 1959 to purify solutions prior to introduction into fast processes. Cation and anion exchange were developed in 1959 to replace solvent extraction. Cation exchange removed chlorides that corroded anion exchange equipment. Anion exchange purified and concentrated nitrate solutions to make them suitable for fast recovery processes.

Fast recovery operations processed relatively pure plutonium metal from foundry operations, metal returned from the weapons stream, and nitrate from slow operations. Returned metal was first converted into plutonium oxide. Oxide was dissolved in nitric acid to create plutonium nitrate solutions, which were then blended with nitrate from the slow process to achieve the proper pH and plutonium concentration. Using hydrogen peroxide, nitrate solutions were next converted into plutonium peroxide, a solid, in a refrigerated reactor. Peroxide was heated and dried in a large rotating calciner tube. Hydrofluorination next converted calcined plutonium oxide into plutonium tetrafluoride through a reaction with hydrogen fluoride. Plutonium tetrafluoride, a pink cake-like substance, was then reduced to plutonium metal through interaction with calcium metal in a furnace.

Building 771 operations also included processing other radioactive isotopes. Americium was among the impurities removed from the weapons stream through molten salt extraction of solids and anion exchange of nitrate solutions. Americium was recovered and used for research and development as well as commercial purposes. Small-scale operations with neptunium and uranium were also conducted in Building 771.

Non-radioactive metals including beryllium, steel, copper, aluminum, and silver were used in the weapons manufacturing process. Beryllium contaminated many Building 771 and 774 gloveboxes and tanks, and special beryllium controls were required to disassemble them.

The first floor of Building 771 contained administrative areas, plutonium recovery processing, analytical laboratories, standards laboratory, research and development laboratories, metal fabrication workshop, maintenance workshop, and four docks. The second floor contained an area known as chemical make-up where process liquids and caustics used for treatment were stored. The second floor also contained HVAC and utilities equipment, filter plenums, supply and exhaust fans, emergency generator systems, steam supply, plant and instrument air, supplied breathing air equipment, a boiler to produce steam and heat in case the main steam plant was shutdown, and one dock.

Six major additions to Building 771 were constructed. These expansions brought the total area of the building to approximately 151,000 square feet. The first addition was Building 771A, which was constructed in 1962. 771A was a one-story structure, approximately 41 feet by 110 feet on the north side of the main building. Offices and the cafeteria were moved into 771A when it was completed. This addition, which had a separate ventilation system, was separated from the process areas by a hallway and doors. Completed in 1966, the 771B office addition was a one-story building, measuring 41 feet by 81 feet. 771B was built on the north side of the main building, west of 771A. Dock 1 was added to the northwest side of the main building in 1968. A maintenance shop was constructed in 1970 on the west side of the main building. The maintenance shop measured 60 feet by 77 feet. Building 771C, a waste packaging facility, was built in 1972. It was a one-story addition to the east side of 771, extending to the west side of Building 774. Also known as the annex, 771C was used to store, count, and ship waste.

A plenum deluge catch tank shed, built in 1974, was added on the west side of the original building. It was a one-story, 24 feet by 30 feet shed. The shed housed a 4,000-gallon plenum deluge tank and support system to collect the water that would result from fighting a fire inside the filter plenums.

Table 1-1 presents a chronological history of Building 771:

**Table 1-1. Building 771 Chronological History**

1951	Construction began in November
1952	Building 771 was occupied
1953	Plutonium operations began in May
1957	A fire in the southwest laboratories occurred on September 11. The fire convinced plant managers to transfer plutonium foundry, fabrication, and assembly operations to Building 776/777. The fire caused significant damage in the main filter plenum after vapors accumulated there and ignited. It also heavily contaminated the ceiling in the laboratories.
1958	A first of its kind incinerator began operations to maximize efficiency of plutonium recovery operations. Plutonium-bearing combustibles were incinerated in order to recover plutonium from ash.
1959	The solvent extraction process for purifying plutonium nitrate was replaced with an anion exchange process.
1963/64	Building 771A was constructed to house office and cafeteria areas. This allowed expansion of plutonium operations into room 114. New gloveboxes for americium recovery, dissolution, batching, calcination, hydrofluorination, and reduction were installed.
1967	An office expansion, 771B, was added to the west side of 771A
1968	Building 371 was conceived as a larger and safer facility to replace Building 771. Building 371 would feature automated processes to keep workers distanced from the hazards of plutonium processing.
1969	A fire in Building 776 spread contamination in Building 771 after water used to extinguish the fire flowed down the tunnel from Building 776 into Building 771
1970	An addition was completed on the west side of the building to consolidate all maintenance, pipe, sheet metal, and painting activities.
1971	Building 771C, used for waste handling and assaying, was completed. Also known as the annex, 771C connected Building 771 with Building 774.
1971	Building personnel sealed and abandoned room 141 after pumps leaked and caused severely elevated airborne radioactivity. The room housed vacuum pumps used for liquids transfer.
1979	In anticipation of Building 371 start-up, plutonium operations in Building 771 were discontinued. Cleanup operations began in Building 771.
1980	Building 771 operations were re-started due to problems in Building 371. Significant changes to nuclear material accountability requirements implemented in the late 1970s had rendered the Building 371 design obsolete.
1984	It was recognized that Building 371's automated processes would not be able to replace the hands-on processes in Building 771. Building 771 upgrades, long delayed in anticipation of Building 371 start-up, were initiated. The Indirect/Direct Evaporative Cooling (IDEC) addition to the second floor, for example, was constructed to house replacement ventilation equipment.

1988	A heat plume was detected over Building 771 by a passing aircraft on a winter night. Federal authorities alleged plant operators were conducting illegal incineration activities.
1989	Site operations were shut down as part of an investigation into alleged environmental crimes.
1992	President Bush announced the end to production of weapons components for submarine-based missiles, effectively ending the mission of Rocky Flats.
1994	Citing increasing risk resulting from plutonium solutions in process piping, tanks and four-liter bottles stored in gloveboxes, a DOE working group declared Building 771 the most vulnerable plutonium facility in the complex.
1996	Tank draining activities began
1998	Tap and drain of Building 771's vast network of process piping began
1999	The first glovebox under the DOP was removed
2002	The last glovebox was removed
2003	The facilities were declared criticality incredible
2004	The facilities were demolished and the project completed

### 1.1.2 Building 771 Stack

Building 771 had a reinforced concrete stack at the southeast corner of Building 771. The top of the stack had an inside diameter of 10 feet, the base had an inside diameter of 19 feet, and it was 159 tall. The stack wall was 6 inches thick at the top and 11.5 inches thick at the base. The stack exhausted all building ventilation, which passed through multiple stages of High-Efficiency Particulate Air (HEPA) filtration systems.

### 1.1.3 Building 774

Building 774 was designed to treat liquid wastes generated in Building 771. Building 774 was originally a two-story rectangular structure of poured-in-place concrete. By 1989, seven additions had been made to the building, resulting in multiple levels varying from one to four stories in height. The additions were constructed of block wall, reinforced concrete, metal-on-metal framing and transite. With the additions, floor space increased to 25,000 square feet. Like 771, the facility was built on a steeply sloping site. The first floor on the north side is 7.5 feet below-grade, and the fourth floor on the south side is 4 feet above-grade.

As the site was expanded to increase production of nuclear weapon components, Building 774 began processing radioactive acidic and caustic wastes, aqueous and organic wastes, waste oils, and non-radioactive waste photographic solutions. Buildings 111, 112, 130, 371, T371J, 441, 444, 460, 551, 559, 664, 707, 750, 771, 776, 777, 881 and 991 generated one or more waste streams that were processed in Building 774.

The goal of Building 774 waste treatment processes was to reduce liquid radioactive wastes and convert them into a form suitable for transport off-site for storage and disposal. In general, wastes were either piped directly into Building 774, or transferred in drums, containers, or other types of packaging. The waste entered a series of interconnected tanks designed to treat acidic, caustic and radioactive wastes and separate relatively low-level radioactive effluent from



contaminated solids or sludges. Four processes were used in the building to meet certain characteristics of the waste:

- Neutralization and filtration of acidic wastes containing large quantities of metal ions or chloride ions
- Batch neutralization, precipitation and filtration of acidic wastes containing only small quantities of metal ions or basic wastes containing large quantities of undissolved solids;
- Continuous radioactive decontamination of neutral and caustic wastes; and
- Solidification of aqueous wastes with complexing agents, certain radioactive isotopes, or hazardous chemicals that were undesirable in the regular waste system. These wastes were mixed with an absorbent material and Portland cement in barrels for disposal. This process was eventually replaced by the organic and sludge immobilization system. The organic and sludge immobilization system accepted waste oils from any building at the site that contained transuranic (TRU) material and converted the liquid waste into solid waste.

The role of Building 774 diminished with the inauguration of the new process waste treatment facility in Building 374. Building 774 continued to process contaminated organic wastes that could not be incinerated, and the liquid process wastes generated in Building 771.

#### **1.1.4 Building 728**

Building 728 was a sewage lift station with two 25,000-gallon below-grade holding tanks (tanks 292 and 293) for surge purposes. It was located approximately 35 feet north of the west half of the Building 771 office addition. The structure was constructed of cast-in-place concrete. The above-grade portion of the building was approximately 7 by 15 by 4.5. The remainder of the structure extended approximately 12 feet below grade and occupied a footprint of 34 by 25 feet.

### **1.2 Verification That DOP Requirements Were Met**

From three alternatives for the long-term disposition of facilities presented in section 1.1 of the DOP, decommissioning and demolition was selected for all RFETS facilities including Buildings 771 and 774. The remainder of this report contains significant detail as to how the requirements under this alternative were accomplished.

The following summarizes the major requirements of the decommissioning and demolition alternative and specific verification that they were achieved:

1. **Characterization.** The project thoroughly characterized the facilities and process systems to identify the location and extent of radiological, chemical, industrial, and other hazards. The results of these efforts are documented in the Reconnaissance Level Characterization Reports and Pre-demolition Survey Reports (PDSRs).
2. **Component removal and size-reduction,** which included strip-out, decontamination, size-reduction (if necessary), and packaging of all equipment in the facilities. Included were gloveboxes and glovebox internal equipment, tanks, ventilation systems, and process and utilities piping. All equipment was removed and packaged, per the individual dismantlement set closeout reports. Following dismantlement set completion, the DOE and LRA performed a field walk-down to verify component removal and approved each set closeout report.
3. **RCRA regulated units closure.** Table 8 in the DOP included ten (10) hazardous waste container storage units that were required to undergo closure. The units were decontaminated

and met the requirements of section 6.1.1 of the DOP, as documented in the Professional Engineer certification included in Attachment 11.12.

4. Under-building characterization, required to determine the extent of under-building remediation, if any, that would be required. 148 samples from beneath and around Buildings 771 and 774 were collected and analyzed. The sampling and analysis results, which determined no remediation was necessary, are contained in ER RSOP Notification and Closeout Report, IHSS Group 700-4, dated February 2004.

5. Decontamination, which involved removing contamination from floors, walls, and ceilings. All structural surfaces were decontaminated to the applicable release criteria, surveyed, and released for disposition. Survey results were documented in each decommissioning area's PDSR and/or in this report. The DOE and LRA approved each PDSR prior to demolition.

6. Demolition. All structures in the Building 771/774 project were removed to a depth of at least minus three feet of final proposed grade.

7. Site Restoration. The Building 771 and 774 sites were backfilled following demolition. Topsoil, seeding, and erosion controls were also placed and installed.

## 2.0 Project Description

Building 771/774 decommissioning scope was subdivided into dismantlement sets and decommissioning areas. This distinction was made to plan work in logical sequence and comply with terms of the two collective bargaining agreements. In general, Steelworkers completed work on dismantlement sets, and Building Trades completed work on decommissioning areas. Per collective bargaining agreements, Steelworkers completed work on systems with removable contamination greater than 2,000 disintegrations per minute (dpm). Building trades generally worked in areas removing systems and equipment with removable contamination less than 2,000 dpm.

### 2.1 Dismantlement Sets

Dismantlement sets included scope to remove contaminated gloveboxes, tanks, process piping, ducts, filter plenums, and other related equipment. In many sets, fire suppression and alarm systems, ambient lighting, domestic water, sanitary drains, and various tools were left in place for later removal. Dismantlement consisted of planning, disassembly and removal of equipment components and satisfactory waste packaging for disposal.

Note that in February 2000 the project re-baselined the set descriptions. This change resulted in a revised allocation of rooms or portions thereof to sets. The change was approved in DOP modification 3. Table 2-1 contains the revised dismantlement sets descriptions:

Table 2-1. Dismantlement Set Descriptions	
Set	Description
07	Room 114 glovebox 2 - This set included glovebox #2 and the shielded drum storage area on the south wall of Room 114. Glovebox #2 was used for plutonium metal dissolution and other miscellaneous processing.

**Table 2-1. Dismantlement Set Descriptions**

<b>Set</b>	<b>Description</b>
12	Room 114 glovebox 8, 8E, 9 - This set included gloveboxes 8, 8E and 9. These gloveboxes were used for staging calcined plutonium oxide.
22	Room 149 gloveboxes 33, 37, 38 and 39 - This set included gloveboxes 33, 37, 38, 39; Tanks D-5, D-176, D-177, D-630 and D-631. These gloveboxes and tanks supported the incineration process.
27	Room 149 glovebox 30 (old) - This set included glovebox 30 (old); Tanks D-203, D-204, D-205, D-206, D-207, D-208, D-218, and D-219. This system was used to dissolve americium salts and separate plutonium from americium.
36	Room 146 Process Area - This set included gloveboxes MT1, MT2, MT3, MT4, MT5, MT6, MT7, MT8; Tanks D-1001, D-1002, D-1003, D-1004, D-1005, D-1006, D-1007, D-1008, D-1009, D-1010, D-1011, D-1012, D-1013, D-1014, D-1019, D-1020, D-1022, D-1023, D-1024, D-1032, D-1033, D-1050, D-1053, D-1062, D-1063, D-1064, D-1065, D-1066, D-1067, D-1071, and D-1072; Vacuum Traps VT-1056 and VT-1058. Equipment in this set was used to recover plutonium from other isotopes.
36 (cont.)	Room 146C, a Vault Type Room - This set included shelves and framework for a SNM storage vault.
38	Room 182 Process Area - This set included gloveboxes 201, 202, 203, 204, 205, 206, 207, 208, 209, 213, 214, 215, 221, 223, 224, 225, 227, 228, 229, 241, and 242 and an overhead conveyor; 2 Hoods; Tanks D-430 and D-431. Equipment in this set was used for research and development processes.
42	180 Office Area - This set included Room 180G, 180H, 180I, 180J, and 180L. These rooms made up an office area. Some contamination in this area resulted from the 1969 fire in B776.
43	Rooms 180A, 180C and 180D Process Area - This set included gloveboxes A10, A20, A30, A31, A32, A51, A52, A53, D1, D2, and D3; Tanks D-1803, D-1804, D-1805, D-1807, D-1809, D-1810, D-1811, D-1813, D-1816, D-1817, D-1818, D-1819, D-2, T-5, T-6, T-7, T-8, T-21, T-22, T-25, and T-26; Vacuum Traps VT1266 and VT1926. This area was a process simulation laboratory and some contamination in this area resulted from the 1969 fire in B776.
46	164 Lab Area - This set included Rooms 154, 155, 155A, 156, 156A, 156B, 161, 162, 163, and 164; gloveboxes 13, 49, 60, 62, 67, 68, 72, 74, 79A, 79B, 81A, 81B, 83A, 83B, 98, 101, 103, 105, 106, 107, 108, 109, 110, 112, 113, 114, and 115; B-Boxes 50, 61, 63, 64, 65, 66, 69, 73, 80A, 80B, 82A, 82B, 99, 100, 102, 104, and 111; Hood 12, Flame Hood 77, Flame Hood 94, Chem Hood, Propane System, Vacuum Traps 156, 164-1, and 164-2; and Sumps 3, 9, 10, and 12. This set contained equipment used for laboratory analysis of plutonium and other isotopes.
50	158 Lab Area - This set included Rooms 158, 159, 160, 165, 166A, 166B, 168 and 169; gloveboxes 158 North, 158 South, BX1, BX2, BX3, BX4, BX5, BX6, BX7, BX8, BX9, 663A, 663B, 663C, 664, and Hood 2. This set also contained gloveboxes used for laboratory analysis of plutonium, americium and uranium. Also included was the standards laboratory where standards for counting equipment were built.
60	Room 114 glovebox 1 - This set included glovebox 1; Tanks D-705, D-706, D-713, D-

**Table 2-1. Dismantlement Set Descriptions**

Set	Description
	714, D-715, D-716, D-764, D-765. Sections of glovebox 1 were used for americium recovery operations. It was one of the largest gloveboxes in the facilities.
61	Room 114. This set included glovebox 3; vault storage areas and contaminated tool storage cabinets. Glovebox 3, one of the largest in the facilities, contained a series of cascading dissolver pots for dissolving plutonium oxide in nitric acid. Also included was Glovebox 7A, a Nash pump vacuum system.
61 (cont.)	Gloveboxes 4, 5A, 9A, and 22; Tanks D-6, D-967; motors and control panels. Gloveboxes 5A and 9A contained vacuum pumps for Gloveboxes 16 & 5. Glovebox 4 contained the blower for the pneumatic transfer lines. Glovebox 22 was used for converting metal from site returns to plutonium oxide.
61 (cont.)	Glovebox 5; Tanks D-548, D-549, D-550, D-551, D-552, D-609, and D-610. This system was a hot nitric acid spray leaching system used to leach plutonium shells and tantalum fixtures.
61 (cont.)	Gloveboxes 11 and 14 (new); Tanks D-507, D-508, D-509, D-510, D-529, and D-530. Glovebox 11 was used for evaporating recycled plutonium nitrate solutions. Glovebox 14 was used for concentrating plutonium nitrate feed solution for the batching operation.
61 (cont.)	Glovebox 12; Tanks D-949, D-950, D-951, D-952, D-953, D-954, D-955, D-546, D-547, D-553 and D-554. Also included was a shielding wall around the tank farm. Glovebox 12 was used as a sampling station for the tanks listed above.
61 (cont.)	Glovebox 13, which was attached to glovebox 14 (old); Tanks D-500, D-501, D-502, D-503, D-504, D-505, D-506, D-507, D-508, D-509, D-510, D-544, and D-545. Also included was a shielding wall around the tank farm. Glovebox 13 was a piping manifold system used for batching solutions for the precipitation process. Glovebox 14 (old) contained a steam-heated evaporator used to concentrate plutonium solutions for batching.
61 (cont.)	Gloveboxes 15 and 16, 16A; electrical control panels, and pumps. Glovebox 15 was used for plutonium peroxide precipitation and glovebox 16 was used for calcination of plutonium peroxide to plutonium oxide. Glovebox 16A contained the scrubber for the calciner's off-gas.
61 (cont.)	Room 114A; glovebox 18; Tanks D-70, D-71, D-72 and D-73; motors, and pumps. Glovebox 18 contains two Nash vacuum pumps that furnished house vacuum.
61 (cont.)	Rooms 112 and 114B; glovebox 17; motor generator sets, furnaces, and control panels. This set contained the glovebox for reduction and button break-out. This glovebox system was operated with an inert atmosphere of nitrogen. The process reacted calcium metal with plutonium tetrafluoride to create plutonium metal.
61 (cont.)	Room 141. Room 141 was constructed to function as a SNM storage vault. It was later converted to pump room to facilitate vacuum transfer of plutonium solutions. The pumps leaked causing severely elevated airborne radioactivity and the room was sealed in 1971.
62	Room 114 Glovebox 6, 7 - This set included gloveboxes 6 and 7. Glovebox 7 contained the hydrofluorinator which used hydrogen fluoride to convert calcined plutonium oxide

**Table 2-1. Dismantlement Set Descriptions**

Set	Description
	into plutonium tetrafluoride. Glovebox 6 contained an off-gas scrubber for the hydrofluorinator.
63	Room 146A Process Area - This set included gloveboxes SR11 and SR12. Equipment in this set contained an advanced system for converting plutonium oxide into plutonium tetrafluoride. Glovebox SR12 contained a fluidized-bed fluorination system, which reacted fluorine gas with plutonium oxide in order to create plutonium hexafluoride, a gas. The gas was cooled and converted into plutonium tetrafluoride, a solid, in glovebox SR12. The process was installed in the early 1970s as an alternative to fast recovery processes.
64	Room 149 C-Cell - This set included a contamination control cell and air handling unit. The cell was used to open high radiation drums.
65	Room 149; gloveboxes 43A, 43B, 43C, and 43D - This set included gloveboxes 43A, 43B, and 43C which were used for graphite scarfing, pipe cleanout, and filter disassembly. Glovebox 43D was used for anion exchange of plutonium solutions, a step that removed americium and other impurities.
66	Room 149 This set included gloveboxes 23, 24, and 25; Tank D-928, and shielding wall. Gloveboxes 23, 24, and 25 were used as cascade dissolver lines.
66 (cont.)	Glovebox 26; Tanks D-979, D-980; Scrubber Towers D-981, D-982; pumps and motors. Glovebox 26 contained the fume scrubber recirculation pumps.
66 (cont.)	Glovebox 29 and Tanks D-360, D-361, D-362, D-363, and D-364. Glovebox 29 was a laboratory waste processing glovebox with chloride cation exchange equipment.
66 (cont.)	Gloveboxes 31 and 50; Tanks D-920, D-921, D-922, D-923 and D-927. Glovebox 31 was used for tank sampling. Glovebox 50 was used for filtration of caustic solutions.
66 (cont.)	Gloveboxes 40, 44; Tanks D-78 and D-79. Glovebox 40 and 44 contained Bingham vacuum pumps for the house vacuum system.
66 (cont.)	Glovebox 42; Tanks D-451, D-452, D-453, D-454, D-456, D-457, D-466, D-467, D-468, D-469, D-470, D-472, D-971, D-972, D-973, D-974, D-975 and D-976. Also included was shielding walls around a tank farm and electrical control panel. Glovebox 42 was used for anion exchange purification.
66 (cont.)	Tank Farm. Included tanks D-931, D-932, D-933, D-934, and the shielding walls around the tanks
67	153 Process Area ; Gloveboxes 153A, 153B, 153C, 153D, 153E, HC1, HC2, HC3, HC4, HC5, and HC6; Tanks 153E, T-3, T-4, T-86, T-87, and T-88; Vacuum Traps VT100, VT101, and VT102. Gloveboxes in this set were actually hot cells equipped with remote manipulators and water walls. This equipment was used for work on highly radioactive isotopes.
68	Room 174 Oralloy (OY) Leach Area - This set included Rooms 172, 174, 175, and 176; gloveboxes A1, A2, A3, A4, and A1097; Tanks D-1081, D1082, D-1083, D-1084, D-1085, D-1086, D-1087, D-1088, D-1089, D-1090, D-1095, and D-091(H-leg). This operation leached plutonium from OY leach shells.
69	Rooms 180B, 180E, 180F and 180K - This set included gloveboxes E10, E11, E20, E30,

**Table 2-1. Dismantlement Set Descriptions**

Set	Description
	E31, E32, E50, E51, F20, F30, K10, K20, K30, and K50; B-Boxes F60 and F70; Tanks D-80, D-81, D-82, D-83, D-84, D-85, D-126A, D-126B, T-728, T-729, T-730; Surge Tank 1807; Vacuum Traps VT1840, VT1841, VT1842, VT1843, VT1844, VT1845; and Scrubber K-30. Some areas in this room were contaminated as a result of the 1969 fire in B776. This area was a process simulation laboratory.
70	309 Tank Area - This set included Room 309; Tanks D-309E and D-309W. Tanks 309E/309W collected liquid from sumps, sinks, and decontamination showers in B771.
71	Corridors A, D, E, G, H, Stairwell 1,2,3, and the 127 Utility Room - This set included Corridors A, D, E, G, and H; stairwells 1, 2, and 3; Rooms 100, 127, 137, and 138; and lockers.
73	Second Floor 771 - This set included Room 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 238A, 239, 240A, 240B, 240C, 240D, 240E, 240F, 240G, 241, 245, 246, 246A, 247, 283, 283A, 283B, 283C, 283D, 283E, 283F, 283G, 283H, 283I, 283J; Supply Fans E8, S3, S4, S5, S6, S7, S9, and FN-6; Exhaust Fans #1, #2, #3, #4, #5 and #6.; Exhaust Unit S-8, Air Handling Units AHU-2 and AHU-3; Plenum S1, practice plenum, motors, HEPA filters, framework, air washers, and walls, Chem-make Up tanks T20, T21, T22, T23, T24, T25, T26, T27, T28, T29, T30, T32, T33, T34, T35, T36, T37, T39, T40, and T44; Vacuum Traps VT41, VT42, and VT43; and hydrogen fluoride equipment, and the Uninterruptible Power Supply (UPS) battery system.
74	This set included filter plenum FU-1E, HEPA filters, filter framework, Zone I exhaust ducting from the 1st and 2nd floors, and plenum ducting from FU-1E plenum to Main Plenum. FU-1E was built to replace FU-1, and filtered exhaust primarily from areas west of corridor A.
75	This set included filter plenums FU-1 and FU-4, HEPA filters, filter framework, exhaust fans, Zone I exhaust ducting from the 1st and 2nd floors, and plenum ducting from FU-1 and FU-4 plenums to Main Plenum. FU-1 filtered exhaust from the west labs. FU-4 was a small filter plenum that filtered exhaust from the locker rooms.
76	This set included filter plenums FU-2A, FU-2B, and FU-2C, HEPA filters, filter framework, exhaust fans, Zone I exhaust ducting from the 1st and 2nd floors, and plenum ducting from aforementioned plenums to the main plenum. These plenums handled exhaust from the primary aqueous processes and rooms on the east side of the first floor. FU-2C was a highly contaminated de-mister plenum. Plenum FU-2B was one of the most highly contaminated rooms on site. FU-2A further filtered exhaust before it was pulled into the main filter plenum.
77	This set included the incinerator filter plenum, HEPA filters, filter framework, exhaust fans, Zone I exhaust ducting from the 1st and 2nd floors, and plenum ducting from Incinerator plenum to the main plenum. The incinerator plenum filtered highly contaminated exhaust and ash from the incinerator.
78	This set included Rooms 280, 280A, 280B, 280C, 281, 281A, 281B, 282, 282A, 282B, 282C and 283H; HEPA filters in the main filter plenum, framework, exhaust fans, doors, and remaining Zone II duct work in the process areas.

**Table 2-1. Dismantlement Set Descriptions**

Set	Description
78 (cont.)	Room 190 and Tank V-2 (Plenum Deluge Tank). Tank V-2 was installed to collect fire suppression water in the event of a fire in a filter plenum.
79	B774 - This set included filter plenum FP-201 in room 441
80	B774 - This set included filter plenum FP-202 in room 341
81	B774 - This set included filter plenum FP-203 in room 320
82	This set included the room 149 size-reduction enclosure.
83	This set included the room 181A size-reduction enclosure.
84	This set included the room 183 size-reduction enclosure.
90	Building 774: This set included rooms 201, 202, and 202A; gloveboxes 5, 6, 7, and 8; Vac Fill A pump; Tanks 1A, 1RF, 2F, 3, 4L, 4R, 70, 71, 72, 73, new tank (not numbered); and Flocculator F-5. This area was known as the first stage processing for solutions from B771. This area contained a microwave chiller and a motor control center. The piping transfer tunnel from B771 entered at the southwest corner of the room.
90 (cont.)	Building 774 room 241; Tanks T-201, T-202, T-203, T-204, T-205, T-206, T-207, T-208 (bottom half only of tanks 205, 206, 207, 208), and T210B. These tanks included four reagent tanks and four batching tanks for precipitation.
90 (cont.)	Building 774 rooms 250 and 251. This area was to be a replacement for the precipitation process equipment. Since this did not become operational, it became a storage area.
90 (cont.)	Building 774 room 212. This area was used to store powders for the OASIS process, which treated organic waste streams.
90 (cont.)	Building 774 rooms 103 and 105; gloveboxes 13 and 355; Tanks T-40, D-351 and caustic storage tank. This area was in the basement and was a support area to the second stage precipitation process.
90 (cont.)	Building 774 rooms 101, 102 and 104; gloveboxes 9, 10, 11, and 12; Tanks F-5, T-9, T-10, T-11L, T-11R, T-12, T-74, T-210A, and C-1. This area was in the basement and was a support area for first stage precipitation /neutralization process. There was one storage area and stairwell entry from the second floor into rooms 102 and 103.
90 (cont.)	Building 774 rooms 210 and 210A; gloveboxes 1, 2, 4, 15, 206, microwave, and OASIS; Tanks 1, 2, 7, 8, 13, 14, and T-374A; and the condensate receiver. This area was located on the second floor above ground level. Operations performed included microwave vitrification, cementation for organics, neutralization and cementation of waste solutions at the bottle box.
90 (cont.)	Building 774 rooms 200, 209 and 220; and Tanks T104, T-102 and T-103. This area was located on the second floor ground level and was the B-774 shipping and receiving area for drums and crates. There are two large waste oil storage tanks in Room 220.
90 (cont.)	Building 774 room 203; glovebox 17; and Tank T-42. This area was on the second floor above ground level and was the second stage precipitation area.
90 (cont.)	Building 774 rooms 341, 342, 343 and 344; Tanks 205, 206, 207, 208 (top half only of tanks 205, 206, 207, 208); pre-coat mixer tank, and exhaust plenum. This area was on the third level and contains a ventilation filter plenum.

**Table 2-1. Dismantlement Set Descriptions**

Set	Description
90 (cont.)	Building 774 rooms 441, 442, and 443. This area was on the fourth level of the facility and contains a ventilation filter plenum and an UPS.
90 (cont.)	Building 774 rooms 320, 321, and 322; an office, and electrical switchgear. This area was located on the third level and was the utilities support to the 200 dock area.
90 (cont.)	Building 774 rooms 204, 205, 206, 207, 208, 209, 301, 302, 303, 304A, 305 and 306. This area included the control room, offices, conference room, break room and restrooms.

## 2.2 Decommissioning Areas

Table 2-2 includes descriptions of the decommissioning areas. Area scope included remaining equipment dismantlement, asbestos abatement, structural decontamination, final survey, and demolition. A small amount of miscellaneous equipment (such as small sections of piping, ducting, and/or conduit) that met Unrestricted Release Criteria<sup>2</sup> (URC) and did not interfere with the pre-demolition survey activities was left for removal after demolition.

**Table 2-2. Decommissioning Area Descriptions**

Area	Description
AA	Area AA (front offices) included the corridor B office area and corridor F office area. Corridor B office area included corridor B and offices 116, 117, 117A, 118, 118A, 119, 119A, 119B, 119C, 119D, 124, 125, 125A, 125B, 125C, 125D, 125E, 126, 126A, and 126B. Corridor F office area decommissioning included rooms 103, 104, 105, 105A, 105B, 107, 109, 110, 110A and 110B; corridor F; and a criticality alarm panel. Area AA scope included the removal of utilities piping; remaining ventilation systems, interior partitions, and drop ceilings; decontamination; and the demolition of the office building structure.
AB	Area AB (annex) included rooms 301, 302, 303, 304, 305, 306 and 308; drum counters; scales; exhaust fans; and motors. Scope included dismantlement of the annex area; removal of utilities piping, remaining ventilation systems, interior partitions, and drop ceilings; decontamination; and the demolition of the annex building structure.
AC	Area AC (locker rooms) included rooms 120, 122, 123, 123B, 123C, 133 and 135; locker rooms; janitor's closet; and the laundry cage in the men's locker room. Scope included dismantlement of the locker room area; removal of utilities piping and remaining ventilation systems; and decontamination.

<sup>2</sup> Removable contamination cannot exceed 20 dpm/100 cm<sup>2</sup>; and fixed contamination cannot exceed 100 dpm/100 cm<sup>2</sup> averaged over 1 m<sup>2</sup> or 300 dpm/100 cm<sup>2</sup> for any 100 cm<sup>2</sup> area.



**Table 2-2. Decommissioning Area Descriptions**

Area	Description
AD	Area AD (maintenance shops) included rooms 129 129A, 129B, 129C, 129D, 129E, 129F, 130, 131, 132, 132A, and dock 2. Scope included dismantlement of the maintenance area; removal of utilities and ventilation piping, removal of interior partitions and drop ceilings, any decontamination required, and demolition.
AE	Area AE (west process areas) included dismantlement of all west process rooms, removal of utilities piping, remaining ventilation systems, interior non-load bearing Concrete Masonry Unit (CMU) walls, and drywall partitions. In-process characterization identified areas of surface contamination, which underwent decontamination. Sections of the walls, floors, and ceilings were removed and packaged during demolition.
AF	Area AF (east process areas) included rooms 135A, 135B, 141, 151, 151A, 151B, 151C, 151E, 151F, and 152; the elevator area; 151 radiation control area; the RCT areas; SAAM panel; and decontamination showers. The elevator area included rooms 142, 145, and 242; electrical control panel; elevator cage; and hydraulic unit. Scope included removal of utilities piping, remaining ventilation systems, interior non-load bearing CMU walls, and drywall partitions. Areas with elevated structural contamination underwent decontamination. Sections of the walls, floors, and ceilings were removed and packaged during demolition. Sections of room 141 were also removed and packaged.
AG	Area AG included the stack, stack tunnel, Building 776 tunnel, and Building 774 tunnel. Decommissioning activities included the removal of stainless steel liner in the 771 stack tunnel, Building 776 tunnel, and Building 774 tunnel; utilities piping, and remaining ventilation systems. In-process characterization identified areas of surface contamination. The lower portions of the 771 stack were decontaminated prior to demolition. The stack was demolished using explosives.
AH	Area AH (second floor) included room 283 east, exhaust unit S-8, Air Handling Unit (AHU) AHU-2, and exhaust fans #5 and #6. This area also included rooms 283A, 283B, 283H, 283I, 283J, and 283 center and exhaust fans #2, #3, and #4. The west 283 HVAC exhaust and utilities area included rooms 283C, 283D, 283E, 283F, 283G, and 283 west; air handling unit AHU-3, exhaust fan #1, and the UPS battery system. Area AH decommissioning activities included the removal of utilities piping and remaining ventilation systems, main supply plenum, test plenum, fans from the filter plenums, bag-filters, air-washers, deep-bed filters, knock-out, and condensate tanks. Control panels, transformers, electrical switch gear, motors, pumps, various instruments, racks, and various tools such as portable lights, welders, ladders, air movers, tool boxes, dollies, cabinets, desks, lockers, and other items were also removed. In-process characterization identified areas of surface contamination. Decontamination removed areas of structural contamination and some sections of the walls, floors, and ceilings were removed and packaged.
AJ	Area AJ included all outbuildings and trailers not included in another area's scope. Decommissioning activities included strip-out/demolition of remaining equipment, Underground Storage Tanks (USTs), tanks and pads, and appurtenant structures.

Table 2-2. Decommissioning Area Descriptions

Area	Description
AL	Area AL (structure) included demolition of Building 771.
AM	Area AM (Building 774) included all areas within Building 774. Decommissioning activities included removal of remaining utilities piping, remaining ventilation systems, interior non-load bearing CMU walls, and drywall partition; decontamination; pre-demolition survey; and demolition.
AN	Area AN (IDEC) included the IDEC which was installed in a second floor addition to the office areas. Decommissioning activities included removal of eight new intake air systems, piping, valves, electrical distribution and control panels. The system was never implemented. A pre-demolition survey was conducted and the metal structure was demolished. The metal components that made up the structure were recycled.

### 3.0 Schedule

Building 771 decommissioning activities under the DOP were initiated in December 1998. Deactivation activities, which included draining tanks and process piping, and removing solid plutonium hold-up from process equipment, began in 1995 and were completed in 2000. This closeout report will not address deactivation activities. The schedule included in Attachment 11.1 contains set, area and major milestone completion dates.

In general, decommissioning activities proceeded as follows:

- Scoping and reconnaissance level characterization, including facility typing, were performed
- Detailed planning was completed
- Process equipment, piping, ducts, non-structural walls, and other interferences were removed, size-reduced or decontaminated and packaged for disposal
- Structural decontamination activities were performed
- The stack was demolished using explosives
- Room 141 was removed and packaged
- Final surveys were performed
- Ground floor areas were backfilled as necessary to prevent cross-contamination
- Buildings were demolished
- Concrete was processed and placed for fill or packaged as Low-Level Waste (LLW)
- Backfill was placed to restore grade
- Top soil and seeding were placed

#### 3.1 Project Milestones

Significant decommissioning milestones and their actual completion dates included:

- Last glovebox removed; December 10, 2002
- Building 771 first floor, west process rooms set dismantlement; September 21, 2001

- Building 771 first floor, east process rooms set dismantlement; June 22, 2003
- Building 771 second floor set dismantlement and ventilation system removal, June 22, 2003
- Building 771 criticality incredible; May 16, 2003
- Building 774 operationally clean; May 18, 2003
- Building 771 operationally clean; June 22, 2003
- Building 771, Room 141 removal complete; July 7, 2004
- Building 774 demolition complete; June 18, 2004
- Building 771 stack demolition; June 21, 2004
- Building 771 demolition complete; October 30, 2004
- Project complete; November 16, 2004

## 4.0 Characterization

Facilities within the 771 Closure Project were characterized in three phases: Scoping characterization, Reconnaissance Level Characterization (RLC), and in-process characterization. Scoping characterization involved collecting documents and interviewing former employees to prepare for the RLC effort. Facilities and tanks were typed during scoping characterization.

Characterization activities were conducted in accordance with the RFETS Decontamination & Decommissioning Characterization Protocol (DDCP), which contains the in-process and RFETS Reconnaissance Level Characterization Plan (RLCP), and the Site-Wide Pre-demolition Survey Plan. Some scoping characterization activities were performed prior to the establishment of these documents.

### 4.1 Reconnaissance Level Characterization

The purpose of the RLC was to provide an assessment of the contamination, hazards, and other conditions present in the facilities and their systems. Data were compiled and incorporated into detailed work planning packages to ensure safe work execution. Existing records and documents were collected and current and former Building 771 employees were interviewed to determine the radiological, chemical, and physical conditions of the facilities. The results of RLC efforts are contained in the reconnaissance level characterization reports. Table 4-1 contains a summary of the RLC documentation with AR numbers:

**Table 4-1. 771 Closure Project Reconnaissance Level Characterization Documentation**

Document	Date	AR Document Number
771/774 Cluster Closure Project Reconnaissance Level Characterization Report	December 17, 1997	B771-A-000001
771/774 Cluster Closure Project Reconnaissance Level Characterization Report, Revision 2	February 27, 1998	B771-A-000003
771/774 Asbestos Sampling and Analysis Plan for Building 771 and Selected Rooms	January 1, 1999	B771-A-000021
Reconnaissance Level Characterization Report Type 2 Data Summaries, 771 Closure Project	November 16, 2000	B771-A-000118

**Table 4-1. 771 Closure Project Reconnaissance Level Characterization Documentation**

Document	Date	AR Document Number
Reconnaissance Level Characterization Report Type 1 Facilities, 771 Closure Project	December 12, 2000	B771-A-000124
Reconnaissance Level Characterization Report for the Type 1 and Type 2 Facilities, 771 Closure Project	March 23, 2001	B771-A-000140
Reconnaissance Level Characterization Report Supplement 771 Annex, Stack and Outbuildings, 771 Closure Project	June 15, 2001	B771-A-000185
Building 771 and Building 774 Hazardous Characterization Report, Building 771 Closure Project	June 21, 2001	B771-A-000204

## **4.2 In-Process Characterization and Pre-demolition Surveys**

Additional characterization was conducted during decommissioning activities as components were removed and building surfaces exposed. This type of characterization is referred to as in-process characterization. Data from in-process characterization was used to identify additional hazards; refine approaches to component removal, size reduction, and decontamination; revise waste volume estimates; and modify environmental, safety and health controls as necessary. In-process characterization activities are documented in the work control documents used to plan and perform work.

Pre-demolition surveys, considered in-process characterization in the DOP, were conducted to verify that decontamination activities were sufficient to meet applicable release criteria. Pre-demolition surveys are discussed in detail in section 6.3.

## **5.0 Component Removal Activities**

Building 771 dismantlement activities included disassembly, size reduction or decontamination, and removal of all components including gloveboxes and interior glovebox equipment, tanks, process piping, hoods, ventilation equipment, filter plenums, ducts, conduit, utilities, other miscellaneous equipment, and non-structural walls including room 141.

Attachment 11.2 is a detailed drawing of Building 771 first floor equipment as it was arranged before DOP approval. The following is a summary of major components that were removed from Buildings 771 and 774:

- 240 gloveboxes. The stainless steel enclosures were up to 60 feet long and 11 feet tall. Several had in excess of 1,000 square feet of surface area.
- 391 tanks. The largest tanks, four 15,000 gallon tanks in Building 774, were 30 feet long
- ~50,000 feet of contaminated liquid process piping
- Tens of thousands of feet of utilities piping and ducts. Ducts measured up to three feet in diameter.
- 12 filter plenums, including the main filter plenum, which spanned most of the width of Building 771

- Large presses, mills, and other metal working equipment
- Room 141, the highly contaminated vacuum pump room
- Several sections of non-structural concrete and CMU walls

Many gloveboxes contained equipment that was both massive and highly contaminated. Glovebox 7's hydrofluorinator weighed over 2,200 lbs. It was size-reduced in the glovebox and packaged as TRU waste. Glovebox SR12 had four ten-foot long cold traps that each weighed more than 400 lbs. More than 600 bag-outs were required to remove SR12s complex network of piping, valves, and other equipment. These two gloveboxes were both involved with producing plutonium tetrafluoride, which emitted elevated levels of neutron radiation. Both gloveboxes were size-reduced for disposal as TRU waste.

Generally, execution of a dismantlement set proceeded as follows:

- Work package prerequisites were completed
- Work area and equipment were isolated
- Gloveboxes were returned to service
- Internal glovebox equipment was removed
- Utilities and external equipment were removed
- Internal surfaces of gloveboxes/tanks were decontaminated
- Surveys were taken to determine if the component met LLW criteria
- Fixatives were applied to internal surfaces
- Glovebox was removed from ventilation
- A soft-sided containment tent was erected, if necessary
- Structural supports were removed and equipment was separated
- Equipment was transported to size-reduction enclosure, if necessary
- Equipment was size-reduced and packaged as waste

Work packages and set closure reports, which are not part of the AR, contain more detail about how components were dispositioned and disposed.

## 5.1 Size-Reduction and Component Decontamination

Some gloveboxes, tanks, and other equipment had to be size-reduced in order to fit into a Standard Waste Box (SWB), a relatively small container specified by the Waste Isolation Pilot Project (WIPP) for Transuranic (TRU) waste disposal. The first gloveboxes removed from B771 were size-reduced in place by workers in Supplied Breathing Air (SBA) suits after soft-sided containment tents were erected. The need for worker separation from cutting operations led to the installation of central size-reduction enclosures. Three size-reduction enclosures were installed in B-771. The first required workers to reach into the cutting environment to operate cutting equipment. The second and third were sealed enclosures that featured plasma-arc cutting for increased productivity.

The desire to avoid hazards that resulted from size-reduction led to the development of revised decontamination and characterization methods which allowed some B771 equipment to be shipped as Surface Contaminated Objects (SCOs) in larger LLW containers. Once decontamination procedures were developed, attempts were made to decontaminate nearly all equipment. Several decontamination agents were tested. Cerium nitrate, a water soluble acid, was selected as the preferred decontamination solution. It was liberally applied to interior tank and glovebox surfaces in a process that transferred removable contamination to wipes, which were disposed as TRU waste. Following neutralization and surveys, the process was repeated if necessary, and if decontamination was successful, surfaces were fixed and the component was disposed as LLW. Some equipment ultimately was too contaminated to be decontaminated to SCO, but decontamination techniques significantly reduced worker exposure to the hazards of size-reduction and the volume of TRU waste generated by the project.

Even after SCO methods were developed, some tanks and gloveboxes that were either too contaminated to achieve SCO criteria or too large to be relocated to one of the size-reduction enclosures were size-reduced in place. Glovebox SR12, for example, was size-reduced in place after a containment tent was erected around the large glovebox. Glovebox 3, a 54 foot long glovebox used for nitric acid dissolution was separated into 11 sections and size-reduced in room 149.

Alternative cutting methods were also explored to reduce worker exposure to size-reduction hazards. A remotely operated water jet cutting system was used to cut a 10,000 gallon tank in the B774 basement into four large rings that were disposed as LLW. Plasma-arc cutting was used to cut four 15,000 gallon tanks in room 241 of Building 774.

## 5.2 Ventilation Systems

Ventilation systems in Buildings 771 and 774 provided engineered contamination control. Four zones were each maintained with increasing differential pressure relative to the atmosphere to keep air moving away from areas of higher contamination. Zone 1 was glovebox exhaust, Zone 2 was room exhaust, Zone 3 was interior corridor exhaust, and Zone 4 was front office/locker room areas exhaust. Building 771 had a single-pass system with nine supply and six exhaust fans. It was capable of moving up to 250,000 cubic feet of air per minute. Building 774 featured a recirculation system with one supply fan, two recirculation fans, and two exhaust fans. Intake air entered Building 771 through a large opening on the roof.

Building 771 ventilation system equipment was located on the second floor. Supply fans and temperature and humidity control equipment were located on the north side of the second floor. A significant network of large ventilation ducts was required to supply and exhaust the facility's gloveboxes and rooms. The diameter of several hundred linear feet of Zone 1 duct on the second floor exceeded three feet.

Building 771 had seven exhaust filter plenums. Exhaust from Building 771's east side first entered FU2C, a chamber that provided fire suppression capabilities. It then passed through multiple stages of HEPA filtration in FU2B and FU2A filter plenums before entering the main filter plenum, a large two-stage plenum that further filtered exhaust prior to release through the stack. Exhaust from 771's west side areas passed through HEPA filtration in FU1E filter plenum before entering the main plenum. FU1E was installed to replace FU1, which had been taken out of service but not decommissioned. Building 771 also had separate filter plenums for the

incinerator, the locker rooms, and a test filter plenum installed after the 1957 fire that was used for training exercises. All filter plenums exhausted to the main plenum.

Decommissioning of second floor ventilation equipment began later in the project because of the need to maintain Zone 1 ventilation on remaining gloveboxes. However, as decommissioning proceeded, temporary air movers were installed on gloveboxes allowing concurrent decommissioning of some ventilation equipment. Ducts that supplied and exhausted gloveboxes were removed as part of the set that contained the glovebox scope. Second floor ducts were removed as part of the sets that contained filter plenum scope.

FU2C, FU2B, and the incinerator plenums were among the most highly contaminated systems in the project. Containment tents were erected around these plenums for dismantlement by workers in SBA suits. A result of americium and plutonium tetrafluoride processing, contaminants in first stage FU2B filters emitted elevated radiation dose rates. Highly contaminated and easily suspendible fly ash was present in the incinerator filter plenum. Loose contamination in these plenums was vacuumed or wiped and disposed in 55 gallon drums. Floor surfaces were kept wet and fixatives were routinely applied to minimize airborne suspension. Nearly all materials associated with these plenums, including the carbon steel plenum walls, HEPA filters, and incinerator scrubber equipment were disposed as TRU waste. FU1 and FU1E plenums, which were not as contaminated, were stripped of equipment, decontaminated, and left for dismantlement by trades workers.

Most of the main filter plenum's 906 HEPA filters were disposed as LLW. Asbestos-containing materials were removed from the plenum prior to demolition. The large plenum's rear wall was removed during demolition and disposed as LLW.

Building 774 had five exhaust filter plenums. Some equipment in these plenums was disposed as TRU waste and others were decontaminated and disposed as LLW.

### 5.3 Room 141

Room 141 was constructed to function as a SNM storage vault. It occupied about 280 square feet of the east-central portion of the first floor. After plutonium operations were expanded into room 114 in the early 1960s, the room was converted to a pump room. Two large concrete pedestals supported vacuum pumps that transferred liquids between gloveboxes. The pumps later failed and leaked highly contaminated plutonium solutions in the room. Attempts to remove contaminated concrete with jack hammers resulted in extremely high airborne contamination and the room was sealed and abandoned in 1971.

Initial surveys in 2002 estimated Derived Airborne Concentration (DAC), a measure of airborne radioactivity, in the room at over 20 million. Respiratory protection is required at 0.3 DAC. Efforts to decommission the room began by increasing ventilation to the room. A four-chamber tent was constructed around the room's door for donning and doffing of personal protective equipment. After several days of operating on increased ventilation, a glycerin-based fixative was sprayed into the room through an opening in the door. After DAC had been reduced to about 500, workers in SBA suits entered the room and began packaging the room's contents into a SWB that was sleeved to the tent. Initial entry involved frequent wetting of pathways and surveys since contamination was easily re-suspended. Contents of the room included large metal pans that held the vacuum pumps, a jack hammer, and several fiber-packs, brought into the room

in 1971 to package concrete. After strip-out of all equipment, additional fixative was applied. DAC remained well below 100.

The concrete structure of the room was too highly contaminated to either be decontaminated or removed during demolition without the building remaining for containment. Thus, the entire room had to be removed and packaged as waste. Concrete was first added to the floor and pedestals to provide added containment and additional fixative was applied to all surfaces. Next the ceiling was cut into two sections using a walk-behind concrete saw from the second floor. These sections were rigged, size-reduced, and packaged as LLW. The walls and adjacent elevator shaft were cut using a diamond wire saw. Large sections of the walls weighing up to 20 tons were then rigged, lowered, size-reduced, and packaged as LLW. A trench was excavated around the perimeter of the room to facilitate diamond wire cutting of the slab and pedestals. The remaining slab and pedestals were cut into several blocks, which were packaged as TRU waste in SWBs. Following slab and pedestal removal, several yards of contaminated gravel and dirt were removed from the trench. Gravel and flowable fill, a substance similar to concrete, were then placed in the space occupied by the slab. Water generated from concrete cutting activities was collected and processed in the water treatment system in the former cafeteria.

Following room 141 removal, several samples taken from remaining gravel, trenches, and surrounding concrete structures revealed no activity in excess of DOP criteria. The results of these samples are contained in Attachment 11.3.

#### 5.4 Component Removal Documentation

Table 5-4 summarizes AR documentation, in document number order, that supports component removal. Included is DOP approval documentation contained in the AR. Note that dismantlement set completion reports are not included in the AR.

**Table 5-4. 771 Closure Project Component Removal Documentation**

Document	Date	AR Document Number
LRA approval to proceed with sets 34 and 40 under the draft Decommissioning Program Plan. (Note: sets 34 and 40 were completed under the previous baseline of set descriptions)	November 2, 1998	B771-A-000010
LRA approval to proceed with set 44. (Note: set 44 was completed under the previous baseline of set descriptions)	November 3, 1998	B771-A-000013
LRA approval of the DOP	January 11, 1998	B771-A-000019
Notification to LRA of set 38A completion	June 26, 2000	B771-A-000113
Notification to LRA of set 69 completion	July 31, 2001	B771-A-000124
LRA approval of Modification 3 to the DOP	March 2, 2001	B771-A-000135
Notification to LRA of set 67 completion	July 2, 2001	B771-A-000148
Notification to LRA of set 69 completion, and RFCA milestone completion for fiscal year 2001	July 31, 2001	B771-A-000149



**Table 5-4. 771 Closure Project Component Removal Documentation**

Document	Date	AR Document Number
Notification to LRA of Argon tank T174 removal	June 16, 2001	B771-A-000150
Notification to LRA of Argon tank 197 removal	June 28, 2001	B771-A-000151
Notification to LRA of set 68 completion	September 5, 2001	B771-A-000152
LRA approval of minor modification 3 to the DOP	September 6, 2001	B771-A-000153
Notification to LRA of set 38 completion	August 23, 2001	B771-A-000154
Distribution of Modification 4 to the DOP	September 6, 2001	B771-A-000155
Notification to LRA of removal of steam condensate tanks T107 and T108	October 4, 2001	B771-A-000159
Notification to LRA of removal of caustic storage tanks 176 and 185	November 5, 2001	B771-A-000161
Notification to LRA of completion of sets 60, 64, and 65	January 7, 2002	B771-A-000162
LRA approval of closure description document for the incinerator	January 31, 2002	B771-A-000163
Notification to LRA of set 94 completion	March 26, 2002	B771-A-000171
Notification to LRA of sets 61, 77, 91, and 92 completion	June 28, 2002	B771-A-000173
LRA approval of Modification 5 to the DOP	August 25, 2003	B771-A-000197
Notification to LRA of completion of dismantlement of Areas AM and AF; and demolition of Area AD	September 24, 2003	B771-A-000208
LRA approval of minor modification 6 to the DOP	March 24, 2004	B771-A-000222
Contact record for characterization and disposition of filter plenums FP-201 and FP-202 in B774	March 24, 2004	B771-A-000223
Notification to LRA of completion of dismantlement of Areas AB and AG	December 17, 2003	B771-A-000228
Notification to LRA of completion of decontamination of Area AB and dismantlement of Area AH	March 31, 2004	B771-A-000240

## 6.0 Structural Decontamination and Pre-demolition Surveys

Structural decontamination activities were performed following dismantlement to remove contamination from interior walls, floors, ceilings, and beams. Most decontamination activities in Buildings 771 and 774 were performed with hydro-lasing equipment, which uses ultra-high pressure water jets to remove surface coatings and contamination. Dry decontamination was also performed on some surfaces.

Before decontamination began, several hundred media samples were taken during the RLC to determine the extent of decontamination activities that would be required. The approach to this characterization effort is consistent with the Pre-demolition Survey Plan (MAN-127-PDSP). Samples analyzed contaminants in both the paint and the concrete surfaces beneath paint. The

samples confirmed that the majority of surfaces in the process areas of both buildings would require decontamination.

The nature and extensive history of liquids processing in these facilities caused significant difficulty with structural decontamination. Leaks and spills of plutonium-bearing acid solutions during the 50 year history of these facilities drove contamination deep into the structure's substrate. In many locations contamination was present at depths of up to four inches, where reinforcing bar (rebar) prevented further decontamination. The 1957 fire in the southwest laboratories highly contaminated the first floor ceiling, and water from the 1969 fire in Building 776 spread contamination when it flowed through the tunnel and into Building 771. Although repeated attempts to decontaminate surfaces significantly reduced contamination, some areas could not be sufficiently decontaminated to applicable release requirements. These areas were removed and packaged for waste disposal.

High pressure hoses, the potential for skin contamination, noise, and temperature stress combined to make hydro-lasing one of the most hazardous decommissioning activities. Because of the difficulty and hazards associated with decontamination, the project and the LRAs developed modification 5 to the DOP, which allowed portions of the facilities to be dispositioned in accordance with the framework for contaminated soil. A major modification, modification 5 required public comment and participation prior to approval. Per modification 5 to the DOP, decontamination activities were conducted according to the following criteria:

- The slab and structure from 0 to minus 6 feet of final proposed grade were decontaminated to the URC or removed, and all structure from 0 to minus 3 feet of final proposed grade was removed
- The slab and structure below minus 6 feet of final proposed grade were decontaminated to ensure that they did not exceed 100 nCi/g on the surface and 7 nCi/g volumetrically; and they were encapsulated to ensure that removable contamination did not exceed URC
- Concrete beneath minus 6 feet of final proposed grade that could not be decontaminated to 100 nCi/g and 7 nCi/g was removed prior to demolition

## 6.1 Hydro-lasing System

Decontamination equipment included several vacuum equipped, fully encapsulated decontamination machines equipped with high-pressure water jets. The jets rotated on a spray bar and were capable of blasting water at up to 50,000 pounds per square inch. Each machine had four spray bars, which removed up to 3/8 inch of surface per pass in a 9 inch wide path. Fully-contained edging equipment and hand-held devices were used for corners, edges and other difficult areas.

The hydro-lasing system included a complete water recycling and treatment system installed in the former cafeteria in Area AA. Two large tanks that received water from decontamination allowed solids to settle and relatively clean water to be processed and re-used. After solid separation, water was filtered and processed through reverse-osmosis before being returned to feed tanks. The majority of water used in the process was recycled through the system. Solids were solidified and shipped as LLW.

Decontamination areas had been stripped of all equipment, systems, conduit, ducts, and piping. Temporary electrical sources were used for lighting. Barriers and other controls separated

decontamination areas from other areas and placards warned workers of high noise and other hazards.

Table 6-1 describes total square feet of decontamination completed by area:

Table 6-1. Decontamination Summary	
Area	Square Feet
AA	2,000
AB	4,060
AC	19,800
AD	830
AE	34,215
AF	87,955
AG	1,520
AH	87,982
AJ	0
AL	750
AM	31,075
AN	1,900
AH Powerwash	39,350
Total	311,437

## 6.2 Pre-demolition Surveys

Pre-demolition surveys were conducted in accordance with the PDSP (MAN-127-PDSP), DOE Order 5400.5, "Radiation Protection of the Public and the Environment", the Multi-Agency Radiation Site Survey Investigation Manual (MARSSIM), and the Building 771/774 Characterization Plan for Areas Greater than Six Feet Below Final Grade.

Pre-demolition surveys provided the data necessary for the DOE and LRA to authorize demolition. They also specifically demonstrated or identified:

- structural sections above minus six feet of final proposed grade that did not meet URC. These sections were painted, fixed, and removed during demolition.
- sections above minus six feet of final proposed grade that met URC. Most concrete from these areas was recycled and used for fill
- sections of concrete beneath minus six feet of final proposed grade that met 100 nCi/g (surface) and 7 nCi/g (volumetric). These sections were left in place.
- sections of concrete beneath minus six feet of final proposed grade that did not meet 100 nCi/g and 7nCi/g. These sections were removed before demolition.
- no sections of remaining structure contained in excess of 20 dpm/100 cm<sup>2</sup> removable contamination

After workers thoroughly decontaminated an area, 100 percent surveys of all areas were performed. Areas that did not meet applicable release criteria were identified and further decontamination was performed. If, after several attempts, surfaces did not meet applicable release criteria, they were identified for removal. Areas beneath minus six feet of final proposed grade were removed and packaged before demolition. Areas above minus six feet were clearly identified, removed during demolition and packaged as LLW.

#### **6.2.1 Areas Above Minus Six Feet of Final Proposed Grade**

Decommissioning areas above minus six feet were subdivided into survey units based on contamination potential as described in section 3.0 of the PDSP. Using the guidance provided in MARSSIM, survey units were classified according to expected levels of contamination. The following defines each class and the minimum surface survey coverage:

Class 1: Areas that are known to be contaminated, 100% of accessible surfaces

Class 2: Areas that had potential to be contaminated, 10 to 100% of floors and lower walls; 10 to 50% of upper walls and ceilings

Class 3: Areas not expected to contain any contamination or a very small amount of residual contamination; Biased, 1 to 10% of total surface area

All process areas in Buildings 771 and 774 were considered Class 1 survey units. Small survey units such as stairwells in the process areas and Area AA (front offices) were Class 2, and outbuildings were Class 3. Surfaces were surveyed with alpha-direct probes.

Total surface activity and removable surface activity measurements were collected from 100 percent of all surfaces in process areas. Complete survey results by measurement location are included in each decommissioning area's PDSR. No area had removable contamination in excess of the URC. Concrete that met URC was processed for fill after demolition. Sections of the structure that did not meet URC were painted with a bright colored fixative, removed during demolition and packaged as LLW.

#### **6.2.2 Areas Beneath Minus Six Feet of Final Proposed Grade**

A 100 percent survey of the slab beneath minus six feet of final proposed grade was performed with sodium iodide (Fidler) detectors. Survey data collected by the Fidlers was used to confirm areas did not exceed the DOP action level of 100 nCi/g for surface contamination. Areas that exceeded the action level were re-surveyed, remediated, and if necessary, removed.

An additional in-situ verification effort was performed to verify with 95 percent confidence that remaining activity was less than 7 nCi/g averaged over the entire slab volume. In-situ sampling was performed at random locations with gamma spectroscopy equipment. The in-situ gamma effort is discussed in 7.4.2, and survey results are contained in Attachments 11.5 and 11.5a.

Smear samples were collected from random locations throughout remaining areas to confirm no removable contamination in excess of the URC (20 dpm/100cm<sup>2</sup>) remained.

With the exception of Building 774 areas beneath minus six feet, the PDSRs contain the random in-situ measurement results for each area along with drawings that depict the sections of concrete that remained. Data on remaining Building 774 structure is presented in section 7.4.2, and detailed survey results are contained in Attachment 11.6.

The project's approach to verifying remaining activity met DOP requirements was very conservative for several reasons. All activity detected by the sodium iodide detectors was considered weapons grade plutonium. No adjustments to calculations were made for background radiation. Survey activity resulting from the minimum detection limit of the sodium iodide detectors was considered weapons grade plutonium. Any area that was uncontaminated was considered contaminated to the level of the Fidler's minimum detection limit. Finally, sodium iodide detectors are capable of detecting radiation from sources deep within concrete. When converting Fidler survey results to volumetric data, the project conservatively spread activity from the entire matrix of slab over just 1/16 inch.

### **6.2.3 Chemical Constituents**

Asbestos had previously been removed from all areas during dismantlement activities. Beryllium smear samples, the number of which depended on whether the survey unit was a Beryllium controlled area, were collected per the PDSP. RCRA/CERCLA hazardous constituents, including lead, were removed during decontamination, and survey units met clean closure decontamination criteria per section 6.1.1 of the DOP. Polychlorinated Biphenyls (PCBs) were also verified removed following decontamination activities.

### **6.2.4 Independent Verification of Surveys**

The Oak Ridge Institute for Science and Education (ORISE) conducted an independent verification of Buildings 771 and 774 before DOE and the LRA authorized demolition. Building 774 was subject to Type A verification per the Independent Verification Team Project Specific Plan for the Building 771/774 Closure Project and the task statement of work. Type A verification consists of validation of the project's pre-demolition survey data with possible confirmatory scans. Building 771 was subject to Type B verification, which consisted of a complete independent survey and sampling effort. Like the project's pre-demolition surveys, ORISE's Type B surveys were conducted according to the applicable release criteria for sections above and beneath minus six feet of final proposed grade. Following the ORISE Type B surveys and recommended follow-up actions, the DOE and the LRA authorized demolition of the facilities.

The final Building 771/774 ORISE report will be included in the AR.

### **6.2.5 Pre-demolition Survey Documentation**

Table 6-2 summarizes the PDSRs and other pre-demolition survey documentation:

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**Table 6-2. 771 Closure Project Pre-demolition Survey Documentation**

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Document	Date	AR Document Number
LRA approval of PDSR for Building 771 Maintenance Shop	June 19, 2003	B771-A-000189
Contact record documenting LRA concurrence that rooms 101 and 102, Building 774 basement, met applicable release requirements under the DOP, and were to be filled with flowable fill	February 27, 2004	B771-A-000224
LRA approval of PDSR for Building 774	May 6, 2004	B771-A-000246
ORISE verification report for Building 774	May 11, 2004	B771-A-000247
LRA approval of PDSR for Building 771 Exhaust Stack	June 19, 2004	B771-A-000250
LRA approval of PDSR for Areas AC, AA(West), AN, Building 775 (Sanitary Lift Station) and the concrete pads for the diesel tanks and Building 716	July 14, 2004	B771-A-000255
LRA approval of PDSR for Building 774 east deck pad	July 19, 2004	B771-A-000262
LRA approval of PDSR for Building 771 Area AE and Area AH (west)	September 14, 2004	B771-A-000264
LRA approval of PDSR for Building 771 Area AF and Area AH (east)	September 21, 2004	B771-A-000268
LRA approval of PDSR for Area AA (east)	October 20, 2004	B771-A-000273

## 7.0 Demolition

### 7.1 Demolition Preparatory Activities

Before demolition began, all slab beneath minus six feet of final proposed grade that did not meet DOP requirements was removed. Contaminated concrete sections above minus six feet of final proposed grade remained for controlled demolition. The only remaining components in either facility included several exhaust fans and the south wall of the main filter plenum, all on the second floor of Building 771. LRA and DOE approval was obtained prior to beginning any demolition activity.

Demolition preparatory activities included erecting barriers around work zones, establishing traffic and loading areas, and installing erosion controls and air monitoring equipment. All underground utilities were removed and electrical power feeds were terminated.

#### 7.1.1 Backfill of Areas Prior to Demolition

Following LRA approval of PDSRs, about three feet of backfill were placed on all ground floor areas of Buildings 771. About 3,500 cubic meters of soil were placed prior to demolition. The fill layer was installed to protect the remaining slab from contamination that could have resulted from demolition of contaminated concrete and fixed contamination that remained on the slab.

## 7.2 Demolition Equipment

Up to five tracked excavators equipped with various attachments including hydraulic shears, grapples, processors, concrete pulverizers, and hydraulic demolition rams were used to demolish the structures. Excavators were used to load waste into waste containers as were front-end loaders and skid steer uni-loaders, depending on the distance of moves.

Concrete pulverizers were used to separate rebar from released concrete and prepare concrete for use as fill. Shears were used to sever metal, structural steel, and other construction materials. Grapples were used for various demolition tasks and materials handling. Demolition rams were used to demolish concrete structures.

## 7.3 Stack Demolition

The stack was demolished using small explosives as a significantly less hazardous alternative to mechanical demolition. Mechanical demolition would have required equipment operation from elevated positions and exposed workers to unacceptable risk in order to cut and lower concrete sections. To use explosives, the project was required to demonstrate that the stack met URC.

A RLC was performed on the interior of the stack in 2001. Survey results indicated some elevated activity on the lower 24 feet of the stack. These areas were successfully decontaminated early in 2004, and the PDSR was prepared. The DOE and LRA approved the PDSR on June 19, 2004.

Demolition activities began by creating a large lay-down area north of the stack in the Building 774 footprint. A section of the stack approximately eight feet square was removed from the north side of the stack base. Approximately 50 1¾" horizontal bore holes were then drilled into each side of the opening. 55 pounds of 60% Ex-Gel dynamite were loaded into the holes. This method of explosive placement allowed a large wedge to be exploded from the stack and ensured the best possible lay-down. Explosives were detonated by electric millisecond delay blasting caps. On June 19, 2004, the explosives were detonated, and the stack was successfully demolished.

Stack rubble was processed to meet fill requirements per the DOP. It was used to fill the void created by Building 774 demolition. The stack tunnel, which exhausted building ventilation from the main filter plenum to the stack, was backfilled.

## 7.4 Building 771 and 774 Demolition

The first areas to be demolished were the Building 771 maintenance shops (Area AD), and the room 190 plenum deluge tank room. These additions met URC, and rubble was disposed as sanitary waste. Most of the slabs supporting these structures were left in place since they were located more than six feet beneath final proposed grade.

Demolition of Building 774 began with the removal of the three large Underground Storage Tanks (USTs) on the south side of Building 774. Tanks 182, 183, and 184 were Type 2 tanks. The polyurethane-filled tanks were contaminated with plutonium, americium, and beryllium. The tanks, their contents and several cubic meters of soil required 218 LLW containers to

package. The tanks were removed with the same air sampling controls that were required of building demolition activities.

The Building 774 room 212/250 addition was demolished first, followed by the east dock, then rooms 220/320, the third floor office areas, rooms 202/203/210, and last rooms 241/341/441. Sections of the Building 774 structure above minus six feet of final proposed grade that were not decontaminated to URC were painted with bright colored fixative, carefully removed, and packaged as LLW.

The next area to be demolished was the annex, also known as 771C (Area AB), which connected Building 774 to Building 771. 771C was a Type 2 facility. CMU walls were removed prior to demolition and sections of the slab beneath the annex were later removed since they were within three feet of final proposed grade.

Building 771 demolition began when the front offices (Area AA) were demolished in July, 2004. Next, the corrugated steel second-floor addition known as the IDEC addition was demolished. The steel was recycled.

Demolition of the main structure began on the west side of the facility and proceeded south through the locker rooms (Area AC) and the second floor (Area AH). Second floor areas were always demolished before first floor areas. As demolition continued to the south through the first floor west process areas (Area AE), demolition began on the east side of the facility.

#### **7.4.1 Removal of Contaminated Sections Above Minus Six Feet of Final Proposed Grade**

Sections of Buildings 771 and 774 above minus six feet of final proposed grade that did not meet URC were painted with a bright fixative, carefully removed during demolition, and packaged as LLW in inter-modal containers. Broad sections of concrete that surrounded painted sections were removed to avoid fracturing any contaminated concrete. The south wall of the main filter plenum, which contained low levels of residual contamination, was removed during demolition.

509 inter-modal containers were required to package Building 771 and 774 low-level demolition waste. Approximately 250 of these 509 inter-modals were used to package contaminated sections of the Building 771 and 774 structures above minus six feet of final proposed grade. These inter-modals were each packaged with about 27,000 pounds of concrete. At 150 pounds per cubic foot, the project packaged about 1,650 cubic yards or 1,275 cubic meters of concrete from the structure above minus six feet.

#### **7.4.2 Sections Beneath Minus Six Feet of Final Proposed Grade**

Sections of the Building 771 slab and structure beneath minus six feet of final proposed grade that met 7nCi/g (volumetric) and 100nCi/g (surface), identified in Attachment 11.4, were left in place. Approximately 1,300 cubic meters of concrete, or 6,400 square meters of slab floor space met the criteria and were left. Approximately 250 additional cubic meters of concrete that formed the south wall and southern portions of the east and west walls were also left.

From the in-situ gamma measurements, 71.49 pCi/g was the average activity remaining over the entire volume of remaining Building 771 structure. This equates to approximately 1.6g of weapons grade plutonium. Survey calculations are included in Attachment 11.5a.



Rooms 102 and 103 and old tank 40 in the basement of Building 774 were completely filled with flowable fill. About 550 cubic meters of fill were required to fill the basement. Filling the basement provided adequate support for ground floor concrete removal activities that were required for sections that did not meet applicable release requirements. Most of room 241 was beneath minus six feet of final proposed grade and therefore was left in place.

Based on the in-situ gamma measurements, total weapons grade plutonium (holdup) remaining in the Building 774 areas beneath minus six feet of final proposed grade was approximately 1.6g. Spread over 98 cubic meters of concrete or 481 square meters of floor space, remaining Building 774 activity averages about 660 pCi/g. Since Building 774 basement survey data is not included in a PDSR, they have been included in Attachment 11.6. B771-A-000224 in the AR documented LRA concurrence on Building 774 basement actions.

The tunnel that connected Buildings 771 and 776 was decontaminated and left in place. It was not filled since it was determined that a surface depression that would eventually result had no negative impacts to surface water flow.

#### **7.4.3 Materials Released for Recycling**

The volume of concrete removed from sections above minus six feet was approximately 2,800 cubic meters. The volume of concrete packaged as low-level waste was estimated at 1,650 cubic meters. Thus, approximately 1,150 cubic meters or 41.1 percent of concrete removed during demolition of both buildings was released, processed on site, and used for fill. No recycled concrete was placed within three feet of final grade.

Corrugated steel from the IDEC was released and sent for commercial recycling.

#### **7.4.4 Air Monitoring**

Comprehensive air monitoring was performed during all Building 771 and 774 demolition activities to ensure particulate emissions were within all applicable plans and regulations. Three separate and independent monitoring efforts collected data from sampling equipment at various locations at the project and around RFETS. The project also deployed lapel-mounted air samplers on a daily basis to collect very close-in readings from workers who operated demolition equipment.

The project deployed four (4) low-volume air samplers at locations very close to Building 771/774 demolition activities inside the work boundary. Samples of airborne radioactivity concentrations were collected on filter media which were sent weekly to Building 371 for counting. Samples were analyzed using an alpha spectrometer and results were available in a few hours. The established action level, developed in accordance with the LRA and the DOE radcon manual, was 0.3 DAC. No results in excess of the action level were received from lapel samplers. One elevated sample result was obtained from a low-volume sampler during excavation of the pipe chase between Building 771 and Building 774. The resulting Potential Intake (PI) calculation was less than one and no further action was taken.

The LRA, in conjunction with the Environmental Protection Agency (EPA) conducted independent environmental monitoring using four (4) low-volume air samplers deployed outside

the Building 771/774 demolition work zone boundary. Samples were analyzed in a laboratory subcontracted by the LRA. There was no defined action level assigned to the LRA/EPA monitoring. All activity collected from the samples was collected and analyzed; none resulted in any action.

Continuous environmental monitoring was conducted from various locations in accordance with the site Integrated Monitoring Plan (IMP) and site Radioactive Ambient Air Monitoring Program (RAAMP). 25 samplers continuously monitored airborne dispersion of radioactive materials from locations on and off site. Filters from 14 samplers around the perimeter of the buffer zone and at off-site locations were submitted monthly for isotopic analysis. Filters from 11 samplers deployed around the site's industrial zone were counted weekly. All sample media were analyzed and compared to two action levels plus a level at which work would have been suspended. Action level 1, at which controls and sampling methods were reevaluated, corresponded to a potential 1.0mrem dose rate at the sampling location. Action level 2 corresponded to a 5.0mrem dose rate, at which air monitoring personnel would have met with the project to reassess controls, dust control, and other factors. Had sample results exceeding action level 2 indicated that a 10mrem dose rate had occurred, work would have been stopped. Consistent with project monitoring, the RAAMP samplers recorded a reading that exceeded action level 1 as a result of the pipe chase excavation. No action was necessary as a result of the reading; however the sample was submitted for isotopic analysis.

#### **7.4.5 Dust and Run-off Controls**

Each demolition activity was carefully analyzed for specific dust suppression needs. Dust control shrouds were used on individual equipment when possible, and demolition activities were suspended during high winds.

Dust suppression water was supplied by fire hydrants. During demolition activities, two hoses were deployed to direct water at structure undergoing demolition. Operators were stationed atop lifts as necessary to best direct the flow of water. Water was applied in a controlled manner to avoid excessive run-off. The project controlled run-off by installing temporary diversion berms, silt fencing, and interceptor ditches.

#### **7.4.6 Type 2 Out-buildings and Tanks**

Type 2 buildings not previously discussed include 714, 728, 770, and 775. Building 714 was a small shed on the south side of Building 771 used to store hydrogen fluoride, a gas used for hydrofluorination of plutonium oxide. The shed and piping that supplied hydrogen fluoride to the facility were not contaminated and they were removed and disposed. 728 was a process waste lift station that included below-grade Type 2 tanks 292 and 293, which were removed to minus six feet of final proposed grade. The 728 structure was demolished and removed. Old process waste lines within 3.5 feet of final proposed grade were removed. Building 770 was a corrugated steel structure used for office space and tool storage. The Building 770 steel and slab were disposed as LLW. 775 was a sewage lift station with two 25,000 gallon below-grade holding tanks that were not contaminated. The 775 tanks were removed to minus four feet of

final proposed grade, filled and left. The 775 structure was demolished and removed. Sewer lines were flushed and those within 3.5 feet were removed, those beneath 3.5 feet were left.

Remaining out-buildings were Type 1 facilities. They included several trailers, a security post, and other small facilities. All were demolished with excavators and most debris was disposed as sanitary waste.

Of the eleven Type 2 tanks, only five were found to be contaminated. Tanks 292 and 293, which were part of the 728 lift station, were removed to minus six feet of final proposed grade, fixed, filled, and left. Tanks 182, 183, and 184, also known as the USTs on the south side of Building 774 were excavated, size-reduced, and disposed as LLW. Tanks 176 185, 194, 195, 774A and 774B were above-grade tanks used for storing caustics and other uncontaminated reagents. They were removed and disposed.

## 7.5 Demolition Documentation

The following table summarizes AR documentation, in document number order, that supports demolition. Since LRA approval of PDSRs was required to begin demolition, ARs documenting their approval were included in both table 7-5 and 6-2.

**Table 7-5. 771 Closure Project Demolition Documentation**

Document	Date	AR Document Number
Contact record summarizing disposition of contaminated Building 771 unistrut	October 2, 2003	B771-A-000209
Contact record summarizing disposition of Building 774 pipe chase	March 25, 2004	B771-A-000220
Contact record clarifying the path forward for piping/sleeve penetrations that remain with six feet of final proposed grade	December 9, 2003	B771-A-000230
Contact record discussing demolition of Building 774 rooms 220 and 320	November 5, 2003	B771-A-000231
ORISE verification report for Building 774	May 11, 2004	B771-A-000247
LRA approval of PDSR for Building 771 Exhaust Stack	June 19, 2004	B771-A-000250
Contact record regarding disposition of slab beneath Area AA	July 12, 2004	B771-A-000253
LRA approval of PDSR for Areas AC, AA(West), AN, Building 775 (Sanitary Lift Station) and the concrete pads for the diesel tanks and Building 716	July 14, 2004	B771-A-000255
LRA approval of PDSR for Building 774 east deck pad	July 19, 2004	B771-A-000262
LRA approval of PDSR for Building 771 Area AE and Area AH (west)	September 14, 2004	B771-A-000264

**Table 7-5. 771 Closure Project Demolition Documentation**

Document	Date	AR Document Number
Contact record regarding the use of recycled concrete for fill, and disposition of major structural portions of Area AF that do not meet unrestricted release as LLW	September 13, 2004	B771-A-000266
LRA approval of PDSR for Building 771 Areas AF and AH (east)	September 21, 2004	B771-A-000268
Contact record regarding the unrestricted release of Area AA (east) and disposal and recycling of materials	September 29, 2004	B771-A-000270
Contact record in which the LRA agreed to the disposal of rebar as LLW	October 20, 2004	B771-A-000271
Contact record in which the LRA agreed the slab of Area AA (east) met unrestricted release	October 26, 2004	B771-A-000272
LRA approval of PDSR for Area AA (east)	October 20, 2004	B771-A-000273

## 8.0 Waste Disposition

Table 8-0 describes the actual container volume or mass of the various wastes generated by the project. Amounts were converted to the estimate unit of measurement for comparison.

**Table 8-0. Waste Summary**

Table 8-0. Waste Summary				
Transuranic (TRU)	TRU – Including Asbestos	1,860 m <sup>3</sup>	2,066 m <sup>3</sup>	Waste Isolation Pilot Plan (WIPP)
	TRU Mixed (TRM) - Including Asbestos	350 m <sup>3</sup>	648 m <sup>3</sup>	WIPP
	TRU/TRM Liquids	0.01 m <sup>3</sup>	Included	WIPP
TRU TSCA	TRU - Toxic Substance Control Act	0 m <sup>3</sup>	0 m <sup>3</sup>	N/A
Low-Level (LLW)	LLW – Including Asbestos	4,110 m <sup>3</sup>	8,647 m <sup>3</sup>	NTS, Envirocare
	LLW – Demolition debris (concrete, rebar, asphalt, soil)	2,790 m <sup>3</sup>	10,111 m <sup>3</sup>	NTS, Envirocare
	LLW – Surface Contaminated Objects (SCO), no str. debris	10,600 m <sup>3</sup>	16,727 m <sup>3</sup>	NTS, Envirocare
	Asphalt (most was disposed as LLW)	0	Volume Included (1,861 tons)	Envirocare, NTS, or Sanitary Landfill

**Table 8-0. Waste Summary**

	Asbestos (most was disposed as LLW)	1,780 tons	Volume Included (479 tons)	Envirocare, NTS, or Sanitary Landfill
	LLW - PCBs	1.8 m <sup>3</sup>	Included	NTS, Envirocare
Low-Level Mixed (LLM)	LLM - RCRA solids, including asbestos	2.0 m <sup>3</sup>	213.8 m <sup>3</sup>	NTS, Envirocare
	LLM - RCRA liquids	2.9 m <sup>3</sup>	Included	NTS, Envirocare
Low-Level TSCA	LLT - Low-Level Toxic Substance Control Act	0 m <sup>3</sup>	2.3 m <sup>3</sup>	Oak Ridge, Tennessee
<b>Sanitary Landfill Waste</b>				
Hazardous/ Toxic	RCRA Solids	6 m <sup>3</sup>	213.6 m <sup>3</sup>	Approved treatment storage and disposal facility
	PCBs	1 m <sup>3</sup>	0 m <sup>3</sup>	N/A
Sanitary	Non-Routine Sanitary	2,200 tons	2,152 tons	Sanitary Landfill
Material for Recycle	Concrete processed for fill	8,100 tons	3,046 tons	Recycled, used for fill
Other	Steel from IDEC	0	193 tons	Off-site vendor

## 9.0 Site Restoration

### 9.1 Under-building Characterization and Remediation

Under-building characterization of the Building 771 and 774 sites was conducted in two phases. A 2001 effort, which collected 32 samples from 16 locations, was primarily used for RLC of hazards and planning for eventual slab removal. To determine if sub-slab remedial actions were required, an additional 148 samples were collected from beneath both buildings, all Individual Hazardous Substance Sites, and potential areas of concern in late 2002.

Per the Industrial Area Sampling and Analysis Plan, samples were analyzed for radionuclides, volatile organic compounds, semi-volatile organic compounds, poly-chlorinated biphenyls, metals, petroleum hydrocarbons, cyanide, and nitrates. Based on the results, which are summarized in the ER RSOP Notification and Closeout Report IHSS Group 700-4 dated February 2004, no remediation of under-building soils was required.

### 9.2 Final Land Configuration

Buildings 771 and 774 were built into a large hillside. The project restored the hillside to original grade by backfilling the depression created by demolition. Building 774 was backfilled while Building 771 was being demolished.

Following demolition of Building 771, backfill placement began at the south side of the depression. Along the south wall where sections of the first floor ceiling remained, flowable fill was inserted as a top layer above backfill since additional soil could not be forced into the space. Backfill was delivered to the project from an off-site location in 20 yard end-dump trucks. Recycled concrete was gradually processed and placed with soil for backfill. At least three feet of soil were placed over recycled concrete. As fill was placed from south to north, it was compacted by truck and heavy equipment traffic in accordance with the specifications in the DOP.

The total quantity of backfill estimated to achieve final land configuration was approximately 66,850 cubic meters. The following is an estimate of the backfill components:

**Soil** - 120,286 tons of soil were delivered to the project site, including fill placed prior to demolition. 120,286 tons equates to approximately 65,000 cubic meters.

**Released concrete** - Approximately 3,000 tons or 1,150 cubic meters were processed for fill.

**Flowable fill** - Approximately 1,850 tons or 700 cubic meters were placed in the Building 774 basement and along the south wall of Building 771.

### 9.3 DOP Verification Surveys

Prior to demolition of Buildings 771 and 774, Global Positioning Satellite (GPS) measurements were taken at several locations around the project site. The measurements specified the exact elevation and location of various sections of remaining structure. Following demolition and backfill activities, GPS measurements were again taken to verify backfill placement was correct for sections of remaining structure per the DOP criteria described in section 2.0. No discrepancies in fill placement were revealed by the measurements.

## 10.0 RCRA Closure Summary

Hazardous and mixed wastes were managed in several areas and systems (units) within Buildings 771 and 774. Several units were included in the RFETS Hazardous Waste Permit, and some units such as mixed residue and interim status tanks and gloveboxes were not permitted. These units were closed during component removal activities. Permitted units included container storage areas, gloveboxes, storage tanks and treatment processes. Prior to initiating demolition activities, all former hazardous waste units were closed. Closure activities were conducted using removal or decontamination methods in accordance with DOP requirements.

The majority of gloveboxes, tanks and associated piping were removed during decommissioning activities. Several gloveboxes and tanks were decontaminated and dispositioned as non-hazardous waste. Systems that could not be adequately decontaminated were dispositioned as hazardous or mixed waste. After all containers, gloveboxes, tanks and associated piping were removed, remaining units, which consisted of the buildings, or secondary containments, were decontaminated and closed in accordance with the DOP. Secondary containment areas were decontaminated using hydro-lasing. Following decontamination activities, a registered Professional Engineer (PE) inspected each area and certified the unit had met the closure

performance standard identified in the DOP. The PE certification is included in Attachment 11.14.

No soil contamination resulted from the management of hazardous waste within Buildings 771 and 774. As a result, no post-closure requirements are necessary.

Attachment 11.1 Building 771/774 Summary Schedule

Activity ID	Activity Description	Current Early Start	Current Early Finish	FY00 Q4	FY01 Q1	FY01 Q2	FY01 Q3	FY01 Q4	FY02 Q1	FY02 Q2	FY02 Q3	FY02 Q4	FY03 Q1	FY03 Q2	FY03 Q3	FY03 Q4	FY04 Q1	FY04 Q2	FY04 Q3	FY04 Q4	FY05 Q1
+	Sub 17 - Rem 114 Overhead	22MAY00A	25SEP00A																		
+	Sub 17 - Rem 114 Overhead (cont'd)	01JUN00A	20APR01A																		
+	Sub 20 - Rem 109 Overhead (cont'd)	06SEP01A	24SEP02A																		
+	Sub 27 - Rem 107 Overhead (cont'd)	22MAY00A	20NOV00A																		
+	Sub 27 - Rem 107 Overhead (cont'd)	17JUL00A	24MAR02A																		
+	Sub 27 - Rem 107 Overhead (cont'd)	22MAY00A	21JUN01A																		
+	Sub 27 - Rem 107 Overhead (cont'd)	22MAY00A	21SEP01A																		
+	Sub 27 - Rem 107 Overhead (cont'd)	04DEC00A	22DEC01A																		
+	Sub 27 - Rem 107 Overhead (cont'd)	21SEP00A	23JUN02A																		
+	Sub 27 - Rem 107 Overhead (cont'd)	13DEC00A	10DEC02A																		
+	Sub 27 - Rem 107 Overhead (cont'd)	18JUN02A	12FEB01A																		
+	Sub 27 - Rem 107 Overhead (cont'd)	30JUN01A	18DEC01A																		
+	Sub 27 - Rem 107 Overhead (cont'd)	28JUN01A	22DEC01A																		
+	Sub 27 - Rem 107 Overhead (cont'd)	19NOV00A	18DEC02A																		



Revision 0  
May 2005

Page 41

771 Closure Project  
Decommissioning Closeout Report

Activity ID	Activity Description	Current Early Start	Current Early Finish	FY00				FY01				FY02				FY03				FY04				FY05			
				Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
* Scl 51 - Rooms 201 - 233		13AUG01A	22JUN02A																								
* Scl 92 - Room 210		01OCT01A	22JUN02A																								
* Scl 93 - Rooms 101-105		13AUG01A	15NOV02A																								
* Scl 94 - Rooms 230, 204, 06, 270, 304-306, 3		03OCT01A	22AUG02A																								
* Scl 95 - Rooms 240, 241, and 441		01OCT01A	18APR03A																								
* Area 26 - 3277 Food Containers & Rooms 101		25JUN01A	27OCT04A																								
* Area 26 - Rooms		25JUN01A	21JUL04A																								
* Area 27 - 16777 Food Containers		25JUN01A	12JUL04A																								
* Area 28 - 16771 Maintenance Shop		25JUN01A	23SEP03A																								
* Area 29 - 16771 Waste of Unfilled Food		28MAR01A	11AUG04A																								
* Area 30 - 16771 Food Containers		28JUN02A	13SEP04A																								
* Area 31 - 16771 Food Containers		25JUN01A	14JUL04A																								
* Area 32 - 16771 Food Containers		28MAR01A	13SEP04A																								
* Area 33 - 16771 Food Containers		09APR01A	23SEP04A																								

Start Date  
01FEB99

Finish Date  
27MAR05

Date Date  
28MAR05

Run Date  
30MAR05 11:14

CPBA - 0771

Kaiser-Hill Company, L.L.C.  
B771/774 Closure Project  
Summary Level Schedule

Sheet 3 of 4

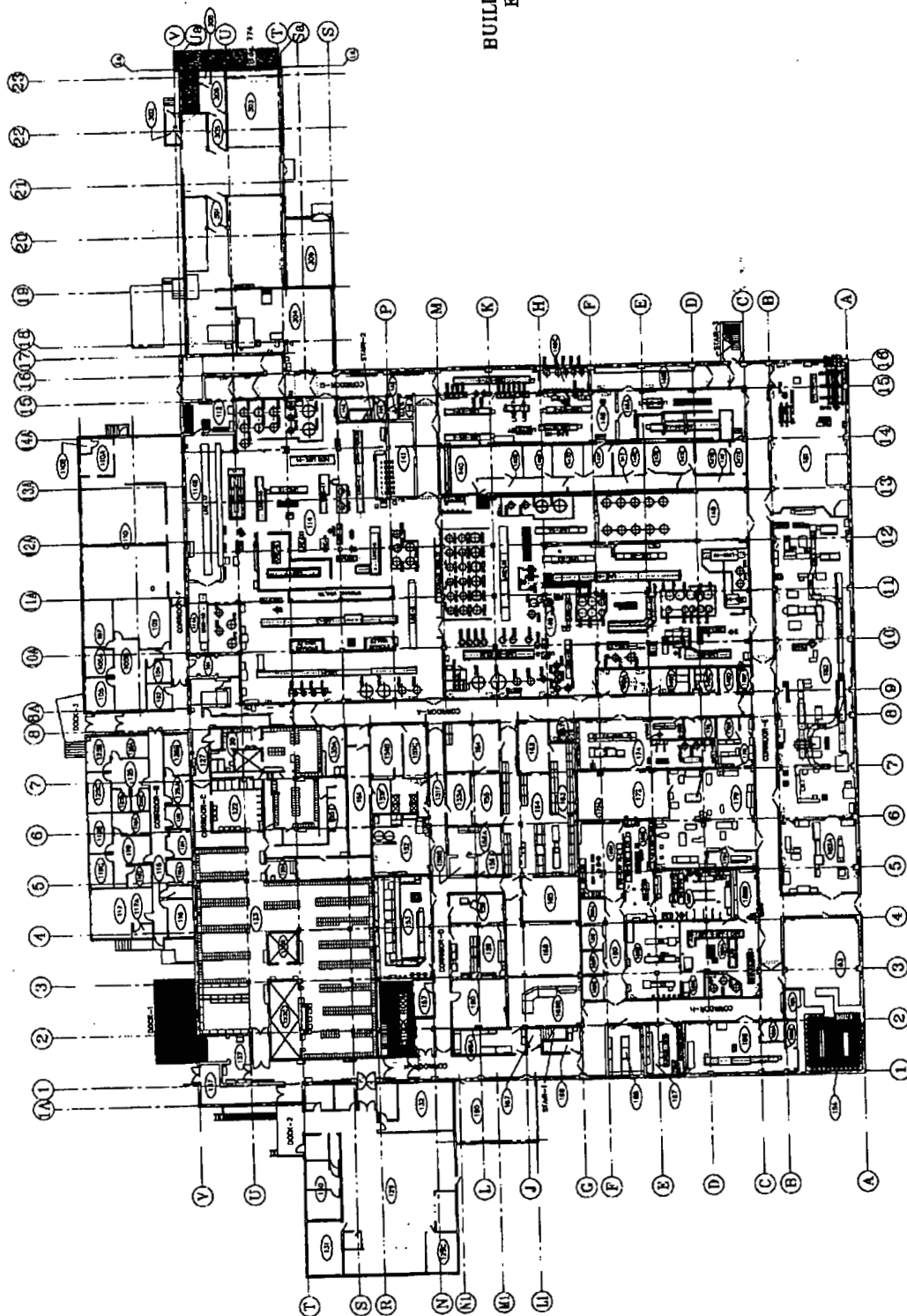
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771 Closure Project  
Decommissioning Closeout Report

Revision 0  
May 2005

Activity ID	Activity Description	Current Early Start	Current Early Finish	FY00																				FY01																				FY02																				FY03																				FY04																				FY05																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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Attachment 11.2 First Floor Equipment Layout



BUILDING 771 FIRST FLOOR  
EQUIPMENT LAYOUT

SCALE IN FEET  
0 10 20 30 40 50 60 70 80 90 100

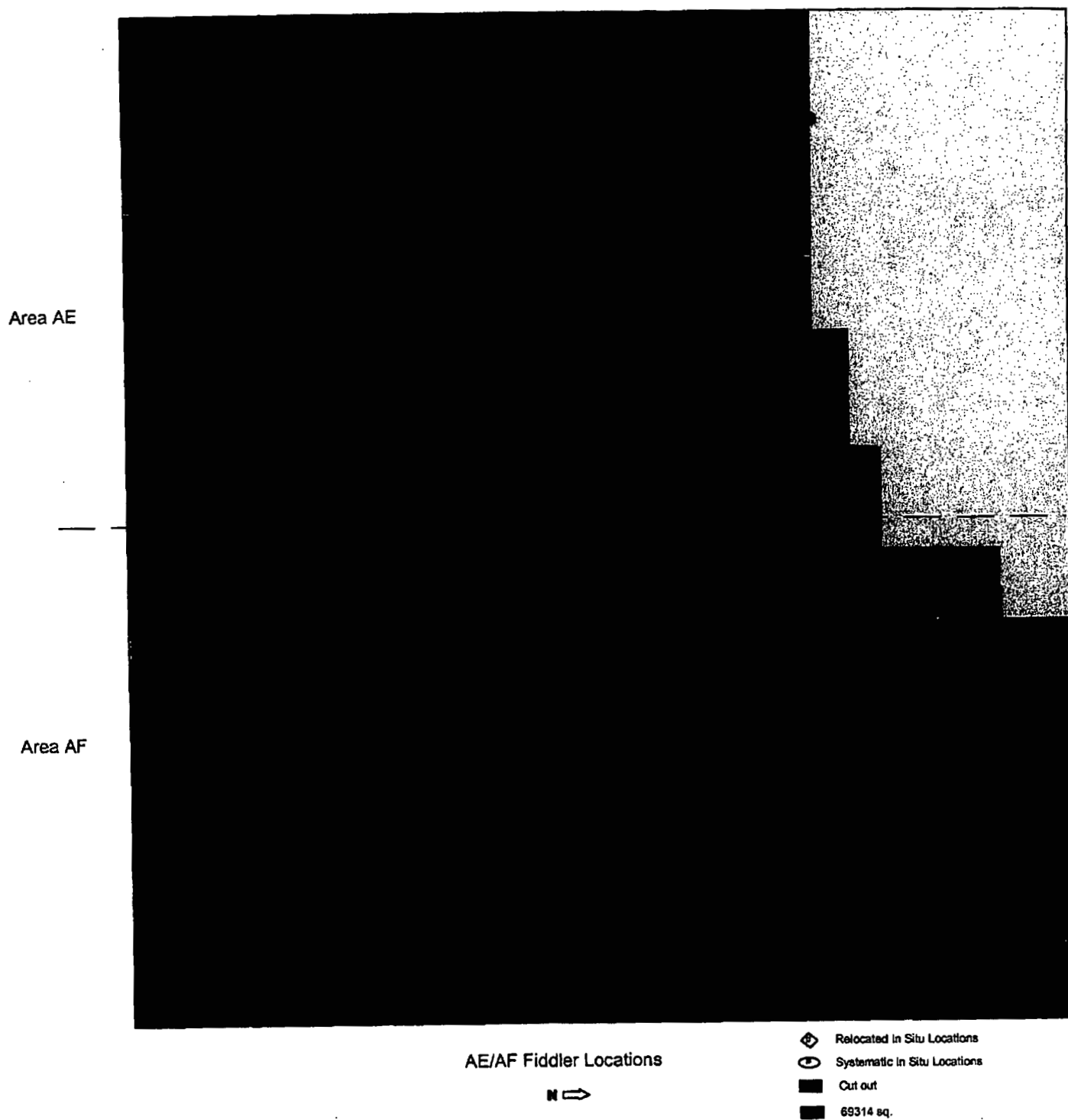
Attachment 11.3 Room 141 Post-Removal Measurement Results

Loc. #	771 ID #	Location Description	Date of Collection	Matrix	Pu-239 (pCi/g)	Am-241 (pCi/g)	Total Surface Activity (nCi/g)	Total Surface Activity < 100 nCi/g?	Depth of Sample (in)	Total Depth of Matrix (in)	Volumetric Result (nCi/g)	Volumetric Result < 7 nCi/g?	Pu-239/Am-241
1	1801	Concrete Found. Wall NW	6/18/2004	Concrete	4.95E+03	1.38E+03	6.33E+00	YES	0.5	36	0.1	YES	3.59E+00
2	1802	Concrete Found. Wall SW	6/18/2004	Concrete	1.00E+03	3.04E+02	1.31E+00	YES	0.5	36	0.0	YES	
3	1804	Concrete Found. Wall NE	6/18/2004	Concrete	4.62E+03	2.12E+03	6.74E+00	YES	0.5	36	0.1	YES	2.18E+00
4	1805	Gravel East	6/18/2004	Gravel	6.13E+01	1.86E+01	N/A	N/A	1	1	0.1	YES	
5	2201	Concrete Found. Wall SE	6/22/2004	Concrete	1.55E+03	5.88E+02	2.14E+00	YES	0.5	36	0.0	YES	2.64E+00
6	2202	Concrete Found. Wall SE	6/22/2004	Concrete	7.50E+02	1.09E+03	1.84E+00	YES	0.5	36	0.0	YES	6.88E-01
7	2203	Trench East	6/22/2004	Gravel	2.28E+03	5.52E+02	N/A	N/A	1	1	2.8	YES	4.13E+00
8	2204	Trench West	6/22/2004	Gravel	5.95E+02	1.34E+02	N/A	N/A	1	1	0.7	YES	4.44E+00
9	14	Gravel - Q	6/24/2004	Gravel	2.77E-01	8.42E-02	N/A	N/A	1	1	0.0004	YES	
10	15	Gravel - Q	6/24/2004	Gravel	2.97E-01	9.02E-02	N/A	N/A	1	1	0.0004	YES	
11	2801	Gravel/Clay Interface	6/28/2004	Gravel/Clay	1.37E+01	4.15E+00	N/A	N/A	1	1	0.0178	YES	
12	2802	Gravel/Clay Interface	6/28/2004	Gravel/Clay	4.02E+02	1.22E+02	N/A	N/A	1	1	0.5237	YES	
13	2803	Gravel/Clay Interface	6/28/2004	Gravel/Clay	2.11E+00	6.41E-01	N/A	N/A	1	1	0.0028	YES	

Pu-239 not detected. Average Pu-239/Am-241 ratio applied.

Average  
Pu-  
239/Am-  
241 = 3.29E+00

**Attachment 11.4 Building 771 Structure Remaining Below Grade**



**Attachment 11.5 Building 771 Random In-Situ Gamma Spectroscopy Survey Results**  
(Areas Beneath Minus Six Feet of Final Proposed Grade)

Area AE (Survey Unit A)		Area AF (Survey Unit B)		Area AH (Survey Unit C)	
Location	Volumetric Result (nCi/g)	Location	Volumetric Result (nCi/g)	Location	Volumetric Result (nCi/g)
1	6.09E-03	1	2.25E-01	1	2.83E-03
2	1.25E-02	2	9.81E-03	2	5.32E-03
3	6.09E-03	3	1.89E-02	3	4.66E-03
4	2.77E-02	4	1.99E-01	4	5.95E-03
5	4.83E-03	5	4.95E-01	5	5.49E-03
6	2.51E-02	6	2.77E-02	6	4.75E-03
7	2.73E-02	7	8.45E-02	7	4.10E-01
8	6.82E-02	8	2.56E-01	8	4.58E-03
9	5.98E-03	9	1.70E-01	9	4.60E-03
10	4.01E-01	10	7.29E-02	10	4.99E-01
11	7.84E-02	11	8.04E-03	11	4.85E-03
12	1.39E-02	12	7.70E-03	12	5.16E-03
13	3.89E-03	13	8.93E-03	13	4.85E-01
14	2.91E-02	14	1.85E-02	14	7.62E-03
15	3.18E-03	15	2.24E-02	15	5.92E-03
mean =	4.76E-02	mean =	1.08E-01	mean =	9.70E-02
max =	4.01E-01	max =	4.95E-01	max =	4.99E-01
stdev =	1.00E-01	stdev =	1.38E-01	stdev =	1.91E-01
Est. sd ( $\sigma$ ) nCi/g = 2.1		Est. sd ( $\sigma$ ) nCi/g = 2.1		Est. sd ( $\sigma$ ) nCi/g = 2.1	
DCGL <sub>w</sub> (nCi/g) = 7		DCGL <sub>w</sub> (nCi/g) = 7		DCGL <sub>w</sub> (nCi/g) = 7	
LBGR = 2.8		LBGR = 2.8		LBGR = 2.8	
relative shift = 2		relative shift = 2		relative shift = 2	
Is actual sd < $\sigma$ ? YES		Is actual sd < $\sigma$ ? YES		Is actual sd < $\sigma$ ? YES	

NOTE: The assumed standard deviation of 2.1 nCi/g is based on a coefficient of variation (standard deviation divided by the mean) of 30%.

**Attachment 11.5a Building 771 Survey Calculations**

Area:		Mass:	
Area AE =	1603 m <sup>2</sup>	Weight in AE =	669,781,490 g
Area AF =	1603 m <sup>2</sup>	Weight in AF =	669,781,490 g
Area AH =	1260 m <sup>2</sup>	Weight in AH =	300,837,600 g

1 m2 cement =	238,760 g/m <sup>2</sup>
Spec Act in AE =	4.76E-02 nCi/g
Spec Act in AF =	1.08E-01 nCi/g
Spec Act in AH =	9.70E-02 nCi/g

Ci in AE =	3.19E-02 Ci
Ci in AF =	7.23E-02 Ci
Ci in AH =	2.92E-02 Ci

Total Ci =	0.1334 Ci
------------	-----------

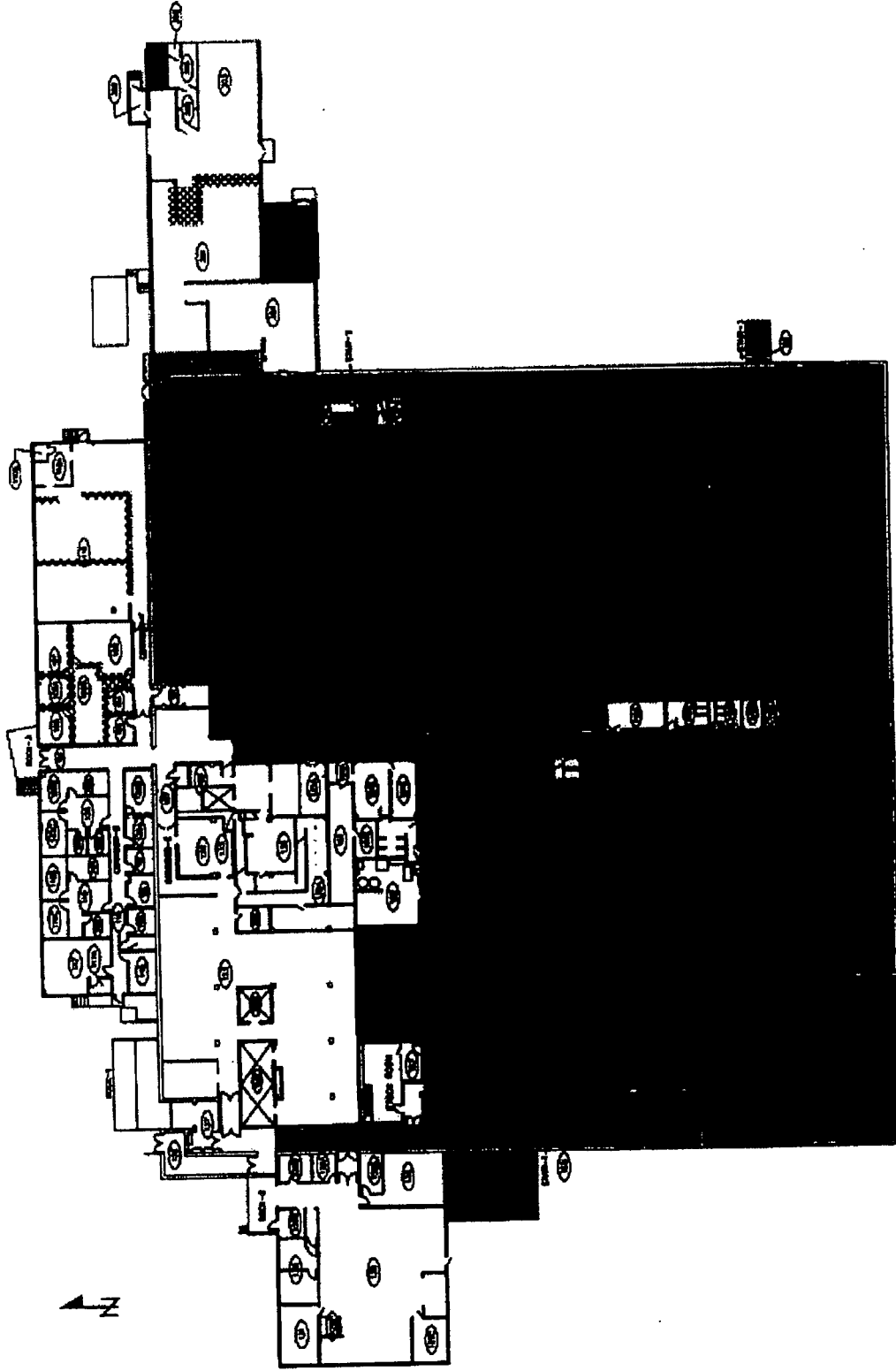
g WGPu =	1.617 g
Specific Activity =	71,488 pCi/g



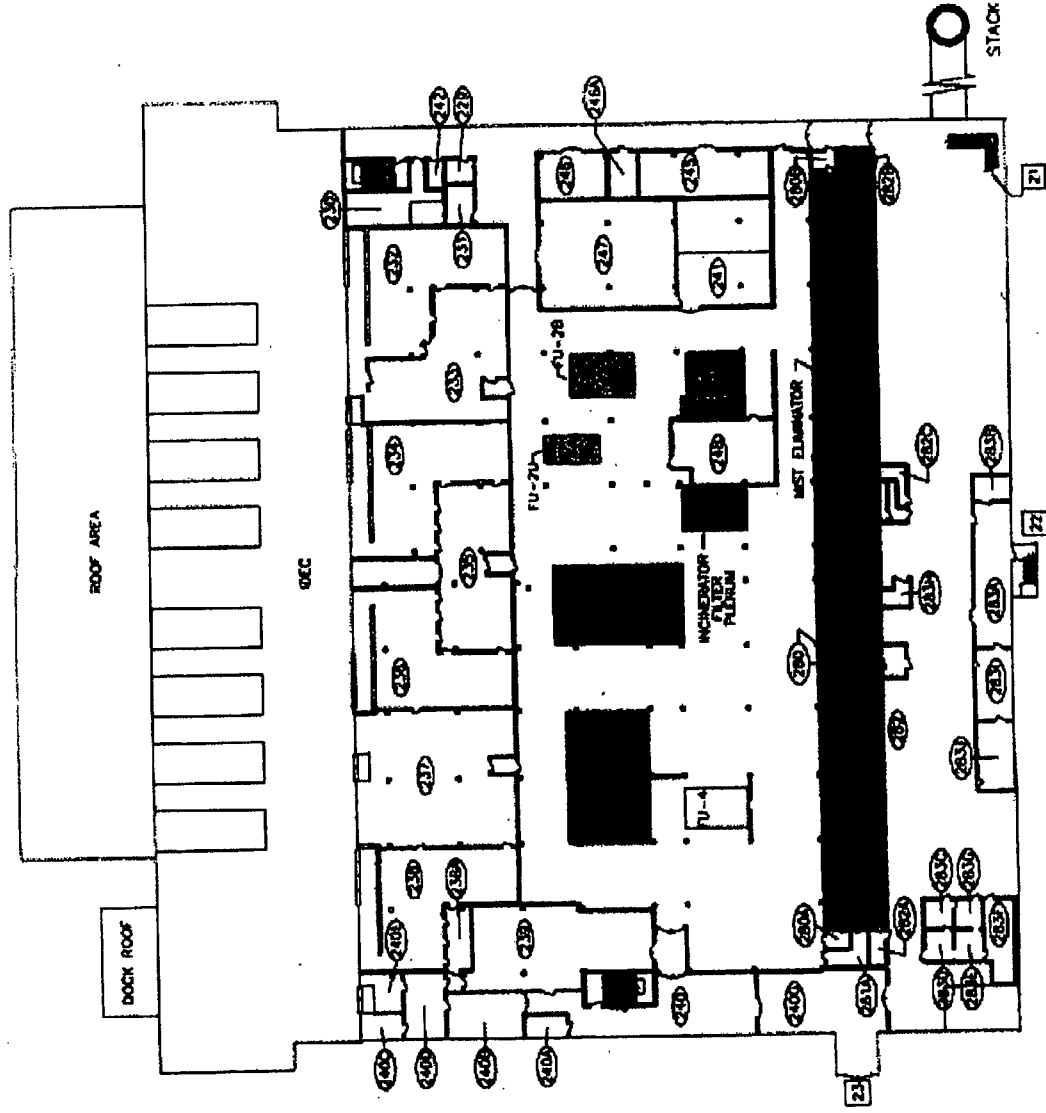
**Attachment 11.6 Building 774 Rooms 102, 103, and 241 Survey Data**

Room 102, 103 and Old Tank 40			Room 241 Only		
Area =	184	m <sup>2</sup>	Area =	297	m <sup>2</sup>
1 m2 cement =	417,830	g/m <sup>2</sup>	1 m2 cement =	417,830	g/m <sup>2</sup>
Mass in 102, 103, T-40	76880720	g	Weight in 241	1.24E+08	
	4.20E-01	nCi/g		7.45E-03	nCi/g
	1.68E+00	nCi/g		5.02E-03	nCi/g
	1.52E+00	nCi/g		8.46E-03	nCi/g
	5.81E-02	nCi/g		8.76E-03	nCi/g
	9.77E-02	nCi/g		1.02E-02	nCi/g
	2.95E+00	nCi/g		3.90E-03	nCi/g
	1.77E+00	nCi/g		6.85E-03	nCi/g
	1.71E+00	nCi/g		2.67E-02	nCi/g
	1.10E+00	nCi/g		9.12E-03	nCi/g
	3.47E-01	nCi/g		1.84E-02	nCi/g
	1.59E+00	nCi/g		4.24E-02	nCi/g
	1.19E+00	nCi/g		1.34E-02	nCi/g
	7.46E-01	nCi/g		8.48E-03	nCi/g
	1.84E+00	nCi/g		4.85E-03	nCi/g
	1.51E+00	nCi/g		1.25E-02	nCi/g
	7.37E-01	nCi/g	Spec Act avg.	1.24E-02	nCi/g
	1.98E+00	nCi/g			
	1.70E+00	nCi/g	Total Ci =	1.54E-03	Ci
	2.94E+00	nCi/g	g WGPu =	0.019	g
	2.90E+00	nCi/g	Specific Activity	12.43133	pCi/g
	3.80E-01	nCi/g			
	2.96E+00	nCi/g			
	4.35E-01	nCi/g	All remaining 774 sections combined		
	6.04E-01	nCi/g	Room 102, 103, 241, and Old Tank 40		
	3.09E-01	nCi/g	Combined Ci	1.33E-01	
	3.04E+00	nCi/g	g WGPu =	1.607	
	1.87E+00	nCi/g	Specific Activity	659.5763	pCi/g
	2.92E+00	nCi/g			
	3.06E+00	nCi/g			
	2.87E+00	nCi/g			
	2.85E+00	nCi/g			
	2.68E+00	nCi/g			
	1.97E-01	nCi/g			
	2.92E+00	nCi/g			
	4.55E+00	nCi/g			
	2.92E+00	nCi/g			
	7.87E-01	nCi/g			
	6.20E-01	nCi/g			
Spec Act avg. =	1.70E+00	nCi/g			
Total Ci =	1.31E-01	Ci			
g WGPu =	1.588	g			
Specific Activity =	1704.153	pCi/g			

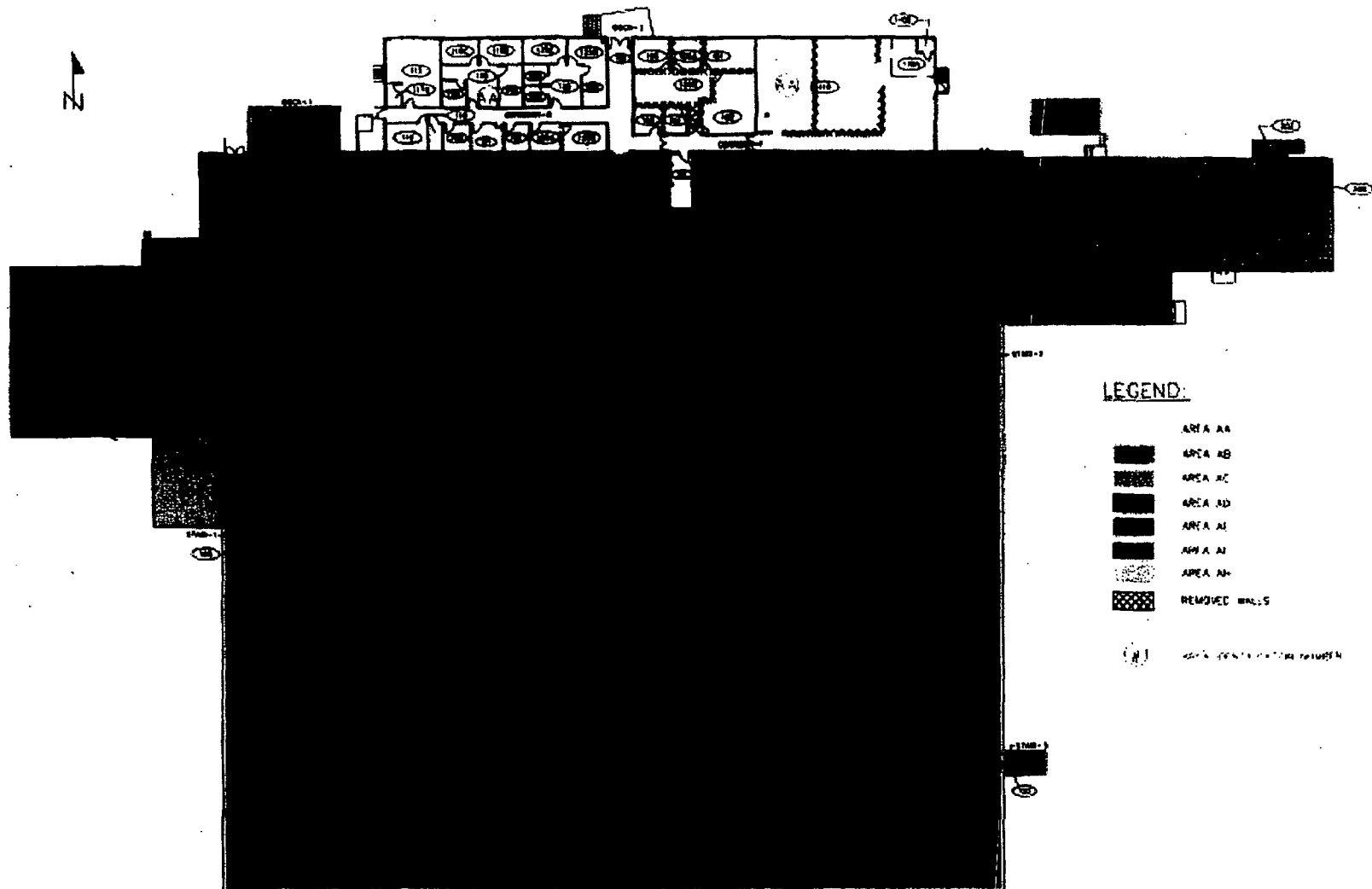
Attachment 11.7 Building 771 First Floor Dismantlement Sets Drawing



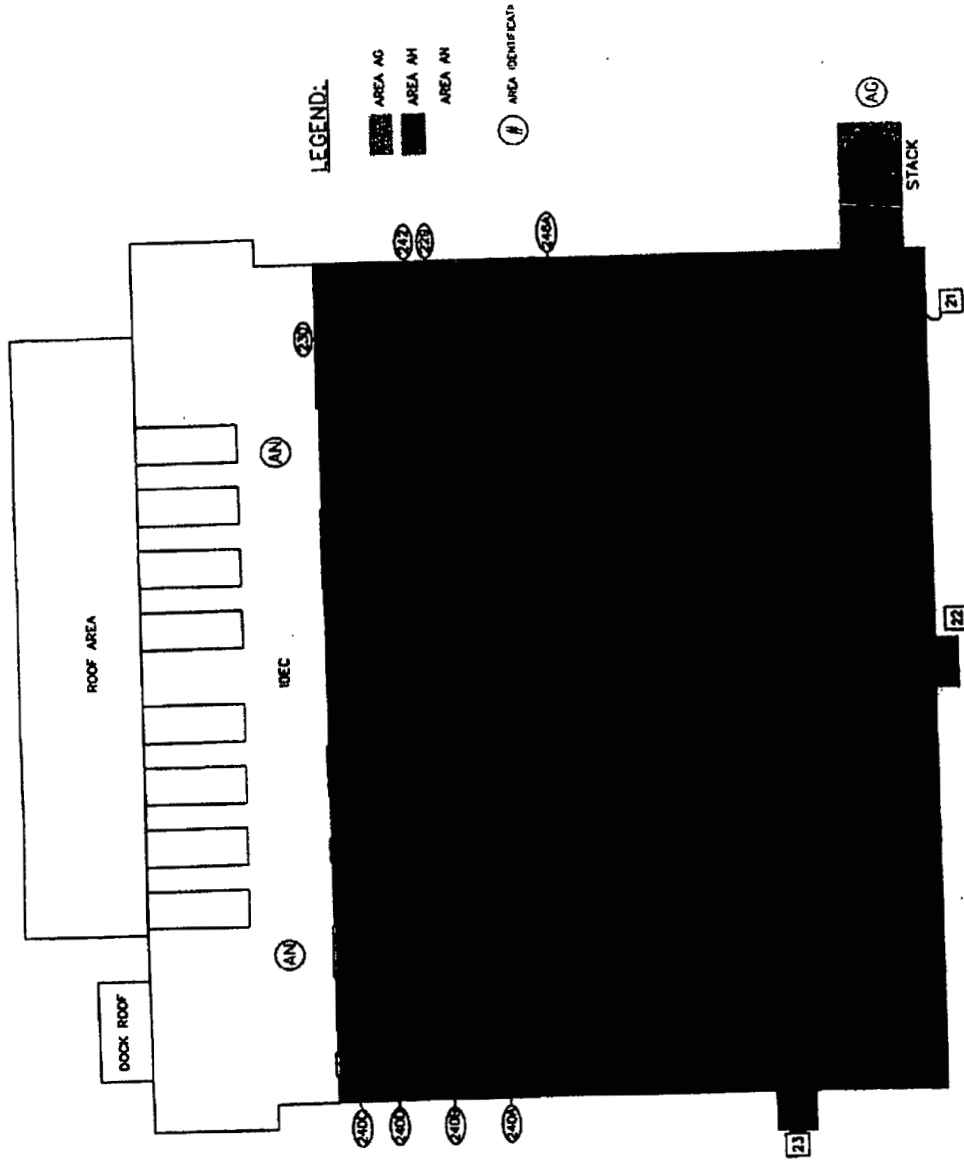
Attachment 11.8 Building 771 Second Floor Dismantlement Sets Drawing



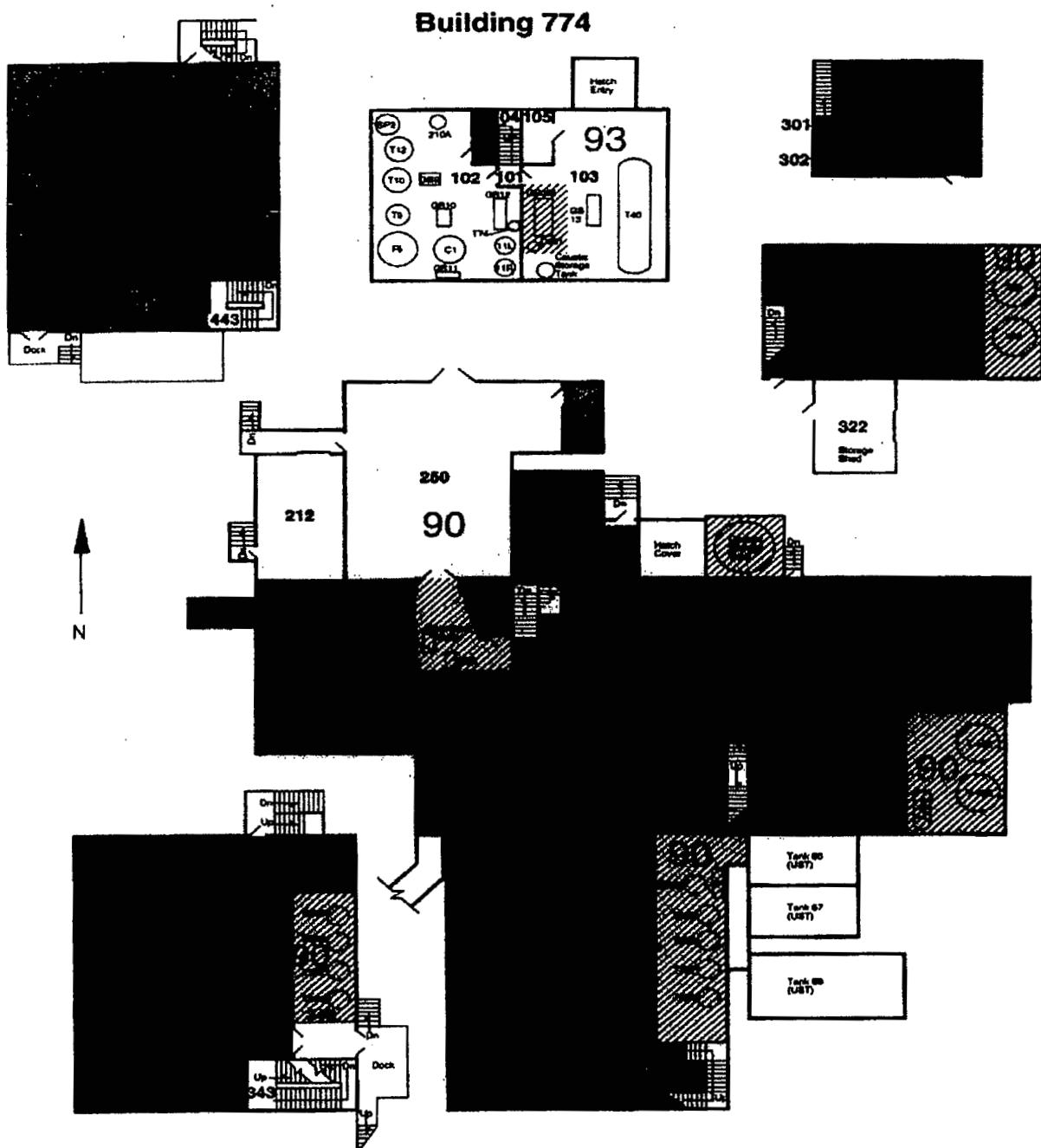
Attachment 11.9 Building 771 First Floor Decommissioning Areas Drawing



Attachment 11.10 Building 771 Second Floor Decommissioning Areas Drawing



Attachment 11.11 Building 774 Dismantlement Sets



**Attachment 11.12 Professional Engineer Certification RCRA Unit Closure**

Thomas W. Robinson, P.E.  
10497 E. Dorado Place  
Greenwood Village, CO 80111

October 25, 2004

Mr. Chris Gilbreath,  
Building 771/774 Project Manager  
Kaiser-Hill Company, L.L.C.  
10808 Highway 93, Unit B  
Golden, CO 80403-8200

RE: Professional Engineer Certification - RCRA Units Building 771/774

Dear Mr. Gilbreath:

The 771 Closure Project Decommissioning Operations Plan (DOP) requires a Professional Engineer (P.E.) Certification upon completing closure of the final hazardous waste unit in Building 771/774. Each of the former hazardous waste container storage units listed in Table 8 of the DOP were decontaminated in accordance with Section 6.1.1.2. Section 6.1.1.2 of the DOP requires that for each unit that is decontaminated using scabbling or hydroblasting techniques, the unit's surface must meet the following criteria: 1) a visual inspection of the unit and associated ancillary equipment confirms the absence of hazardous or mixed waste stains and/or residuals; and 2) radiological surveys verify surfaces are at or below the release criteria for removable contamination identified in the RSOP for Facility Disposition. A visual inspection was performed for each of the units listed in Table 8 of the DOP. Furthermore, radiological surveys confirmed removable contamination was at or below the RSOP release criteria. As a result, each of the units listed in Table 8 of the DOP have met the necessary criteria and are therefore considered "clean closed."

Sincerely,



Thomas W. Robinson, P.E.  
Colorado Professional Engineer No. 14042

**Attachment 11.15 Building 771 Administrative Record Index**



**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

Page: 1 of 59  
Report Date: 02-FEB-05

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000001</b> 12/17/1997 26 Pages PUBLIC	YES, ROUTINE Author(s) MEYER, GREG	97-RF-06514; JGM-060-97; BDL-022-97 Recipient(s) SCHUETZ, GARY	Delivers the enclosed Building 771/774 Cluster Closure Project Reconnaissance Level Characterization Report (RLCR) dated December 2, 1997, as required by the draft Decommissioning Program Plan (DPP).
<b>B771 A 000002</b> 02/27/1998 115 Pages PUBLIC	YES, ROUTINE Author(s) MEYER, GREG	98-RF-01028; IGM-009-98 Recipient(s) SCHUETZ, GARY	Delivers the Building 771/774 Cluster Closure Project Decommissioning Operations Plan (DOP), dated February 27, 1998.
<b>B771 A 000003</b> 09/03/1998 102 Pages PUBLIC	YES, ROUTINE Author(s) NOT INDICATED RAMPE, JOHN SARTER, REGINA	98-DOE-01930; 98-DOE-01929 Recipient(s) GUNDERSON, STEVE	Letter submits the enclosed Revision 2 of the Reconnaissance Level Characterization Report (RLCR) for the Building 771/774 Cluster Closure Project. This information has been compiled to document a detailed walkdown, process knowledge and analytical based characterization of the 771/774 Cluster. It's purpose is {1} to establish a preliminary estimate of the type of contamination or safety hazard present, and {2} the type and tractability of radiation and hazardous substances contamination and physical hazards to be evaluated.
<b>B771 A 000004</b> 08/10/1998 155 Pages PUBLIC	YES, ROUTINE Author(s) PIZZUTO, VICTOR M.	98-RF-04043 Recipient(s) SCHUETZ, GARY	Letter submits the enclosed Building 771 Decommissioning Operations Plan (DOP) August 8, 1998 and Reconnaissance Level Characterization Report (RLCR) [August 8, 1998 RLCR not included - see AR B771-A-000119].
<b>B771 A 000005</b> 09/02/1998 106 Pages PUBLIC	YES, ROUTINE Author(s) RAMPE, JOHN SARTER, REGINA	98-DOE-01916; 98-DOE-01917 Recipient(s) GUNDERSON, STEVE	Letter submits the enclosed Building 771/774 Closure Project Decommissioning Operations Plan (DOP), Revision 0, September 3, 1998.

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

Page: 2 of 59  
Report Date: 02-FEB-05

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000006</b>	YES, ROUTINE	98-RF-01181	
11/06/1998	Author(s)	Recipient(s)	The purpose of this letter is to apprise the regulators of activities that the US Department of Energy, Rocky Flats Field Office (DOE/RFFO) intends to undertake in Rocky Flats Environmental Technology Site (RFETS) Building 771.
11 Pages	RAMPE, JOHN	GUNDERSON, STEVE	
PUBLIC	SARTER, REGINA	REHDER, TIMOTHY	
<b>B771 A 000007</b>	YES, ROUTINE	N/A	
11/06/1998	Author(s)	Recipient(s)	Regards additional comments on the draft Building 771/774 Closure Project Decommissioning Operations Plan (DOP), September 3, 1998 - Colorado Department of Public Health and Environment (CDPHE) Hazardous Waste Management Division (HZMD) requests consideration of enclosed comments in addition to their October 26, 1998 comments. Table 5.1. Building 729 Training Matrix requirements and section specific pages from the DOP for the B779 Cluster Interim Measure / Interim Remedial Action (IM/IRA) included.
7 Pages	GILBREATH, CHRIS C.	SARTER, REGINA	
PUBLIC	GUNDERSON, STEVE	RAMPE, JOHN	
<b>B771 A 000008</b>	YES, ROUTINE	N/A	
10/26/1998	Author(s)	Recipient(s)	Colorado Department of Public Health and Environment (CDPHE) comments of the (September 3, 1998) Draft Building 771/774 Closure Project Decommissioning Operations Plan (DOP)
6 Pages	GILBREATH, CHRIS C.	SARTER, REGINA	
PUBLIC	GUNDERSON, STEVE	RAMPE, JOHN	
<b>B771 A 000009</b>	YES, ROUTINE	N/A	
10/29/1998	Author(s)	Recipient(s)	Requests Regulator permission to proceed with decommissioning Worksets 34 and 40 as previously discussed (October 27, 1998 and October 29, 1998). It is critical that certain, very low risk worksets such as the one requested proceed in order to prevent Building 771/774 closure schedule slips.
1 Pages	SPRINGER, JOE	GILBREATH, C.	
PRELIM		AGUILAR, MARK	
<b>B771 A 000010</b>	YES, ROUTINE	N/A	
11/02/1998	Author(s)	Recipient(s)	The Colorado Department of Public Health and Environment (CDPHE) hereby agrees that the Building 771 / 774 Work Sets 34 and 40 proposed in an October 29, 1998 memo to regulators may occur under the regulatory process identified in the Draft DPP, October 8, 1998 version. Agreement is contingent upon the regulatory agencies being kept apprised
1 Pages	GILBREATH, CHRIS C.	SPRINGER, JOE	
PUBLIC		MEYER, GREG	

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

Page: 3 of 59  
Report Date: 02-FEB-05

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000011</b> 11/06/1998 11 Pages PUBLIC	YES, ROUTINE Author(s) RAMPE, JOHN SARTER, REGINA	98-DOE-01181 Recipient(s) GUNDERSON, STEVE REHDER, TIMOTHY	The purpose of this letter is to apprise regulators of activities that US Department of Energy, Rocky Flats Field Office (DOE/RFFO) intends to undertake in Rocky Flats Environmental Technology Site (RFETS) Building 771. The work intended to perform corresponds to that described in Set 44 in the Draft Decommissioning Program Plan (DPP) for B771. A copy of the proposed modification to the DPP is enclosed for reference.
<b>B771 A 000012</b> 11/06/1998 7 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C. GUNDERSON, STEVE	Recipient(s) SARTER, REGINA RAMPE, JOHN	Provides additional comments on the Draft Building 771/774 Closure Project Decommissioning Operations Plan (DOP), September 3, 1998; Table 5.1. Building 729 Training Matrix requirements and Section 10.0, Quality, of the DOP Interim Measure / Interim Remedial Action (IM/IRA) enclosed.
<b>B771 A 000013</b> 11/07/1998 1 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C. GUNDERSON, STEVE	Recipient(s) SARTER, REGINA RAMPE, JOHN	Based on the activities proposed and regulator reviews of the Draft Work Packages and previous Radiological Surveys for Work Set 44, it is the Colorado Department of Public Health and Environment (CDPHE) Hazardous Waste Management Division's (HZMD), position that work may begin with a recorded agreement or approval. This letter serves at that records agreement.
<b>B771 A 000014</b> 11/03/1998 3 Pages PUBLIC	YES, ROUTINE N/A Author(s) HARLOW, MARY	Recipient(s) CORSI, JOHN	Faxed correspondence from the City of Westminster, Rocky Flats Coordinator, provides recommendations and comments on the Decommissioning Operations Plan (DOP) for Buildings 771/774.
<b>B771 A 000015</b> 12/09/1998 180 Pages PUBLIC	YES, ROUTINE 98-DOE-02007; 98-DOE-02003 Author(s) LEGARE, JOSEPH A. RAMPE, JOHN	Recipient(s) GUNDERSON, STEVE REHDER, TIMOTHY	Forwards the enclosed Final Building 771/774 Closure Project Decommissioning Operations Plan (DOP), dated December 7, 1998. Includes proposed responses to written public comments received by US Department of Energy, Rocky Flats Field Office (DOE/RFFO). Written comments were received from the Colorado Department of Public Health and

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

Page: 4 of 59  
Report Date: 02-FEB-05

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000016</b> 11/21/1996 657 Pages PUBLIC	YES, ROUTINE Author(s) NOT INDICATED	PADC-93-00169 Recipient(s) NOT INDICATED	Rocky Flats Environmental Technology Site (RFETS) Waste Stream and Residue Identification and Characterization (WSRIC), Building 771
<b>B771 A 000018</b> 01/11/1999 1 Pages PUBLIC	YES, ROUTINE N/A Author(s) SPRINGER, JOE	Recipient(s) ADMINISTRATIVE RECORD	771/774 Cluster Project STARR Meeting Telephone Minutes, January 11 and 12, 1999 - The regulators concur that the Administrative Record (AR) for this project is complete.
<b>B771 A 000019</b> 01/11/1999 3 Pages PUBLIC	YES, ROUTINE N/A Author(s) GUNDERSON, STEVE NOT INDICATED	Recipient(s) LEGARE, JOSEPH A. RAMPE, JOHN	The Colorado Department of Public Health and Environment (CDPHE) Hazardous Waste Management Division (HZMD), has reviewed the Building 771/774 Closure Project Decommissioning Operations Plan (DOP), dated December 7, 1998. The Division hereby approves the 771/774 DOP.
<b>B771 A 000020</b> 12/07/1998 186 Pages PUBLIC	YES, ROUTINE N/A Author(s) NOT INDICATED	Recipient(s) DISTRIBUTION	Building 771/774 Closure Project Decommissioning Operations Plan, December 7, 1998 - The scope of this DOP includes decommissioning activities, but does not currently address final demolition or subsequent environmental remediation. Internal demolition may be conducted as necessary for strip-out or decontamination; internal demolition consists of removing simple components, doors, temporary walls, or other nonsupport bearing structures. Any other anticipated internal demolition will be discussed with the Lead Regulatory Agency (LRA) ahead of time. The information was derived from walkdowns of the facilities, information obtained from the Reconnaissance Level Characterization Report (RLCR), and actions completed during deactivation to achieve the identified end points, which are included in Appendix 9.

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 5 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000021</b> 01/01/1999 16 Pages PUBLIC	YES, ROUTINE Author(s) ANDERSON, MARYANN	RF/RMRS-99-306 Recipient(s) DISTRIBUTION	Asbestos Samplin The Division hereby approves the 771/774 (SAP) for Building 771 Corridors and Selected Rooms, February 19, 1999 - The scope of this plan includes the sampling of all areas under the Scope of Work for the demolition of Rocky Flats Environmental Technology Site (RFETS) B771 corridors and rooms 178, 179, 179A, 183, 184, and 185. Contained herein is a preliminary Sampling and Analysis Protocol for Asbestos in building materials for B771 corridors and selected rooms.
<b>B771 A 000022</b> 03/15/1999 5 Pages PUBLIC	YES, ROUTINE Author(s) HOPKINS, TED A.	TAH-016-99 Recipient(s) NORTH, KARAN	Request for approval of RCRA Stable Status for Room 184 Vault in Building 771 - Room 184 Vault is currently included in the Rocky Flats Environmental Technology Site (RFETS) Resource Conservation and Recovery Act (RCRA) Permit as a Container Storage Area within RCRA Unit 771.1, Rocky Mountain Remediation Service (RMRS) requests that a letter be mailed to the Colorado Department of Public Health and Environment (CDPHE) proposing that Room 184 Vault be accepted as -RCRA Stable.' Room 184 Vault will support the new Size Reduction Facility in Room 183 for Decontamination and Decommissioning (D&D) activities under the Building 771 Decommissioning Operations Plan (DOP). Operation of the Size Reduction Facility will result in the generation of both hazardous and nonhazardous wastes which will be managed per the applicable requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and the DOP.
<b>B771 A 000023</b> 03/18/1999 5 Pages PUBLIC	YES, ROUTINE Author(s) HOPKINS, TED A.	TAH-013-99; RF/RMRS-99-338.UN; 98-RF-05726 Recipient(s) NORTH, KARAN	Phase I Summary Report for Tank and Ancillary Equipment System Number 5 in Building 771 - Pursuant to the Resource Conservation and Recovery Act (RCRA) Closure Plan for Interim Status Units (April 1998) (Closure Plan) and the Closure Description Document (CDD) for Tank and Ancillary Equipment System No. 5 (98-RF-05726), Rocky Mountain Remediation Service (RMRS) is submitting the attached

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000024</b> 03/02/1999 5 Pages PUBLIC	YES, ROUTINE Author(s) HOPKINS, TED A.	TAH-011-99 Recipient(s) NORTH, KARAN	Request for approval of RCRA Stable Status for Room 183 in Building 771 - Rm. 183 is currently included in the Rocky Flats Environmental Technology Site Resource Conservation and Recovery Act (RCRA) Permit as a Container Storage Area within RCRA Unit 771.1. Rocky Mountain Remediation Service (RMRS) requests that a letter be submitted to the Colorado Department of Public Health and Environment (CDPHE) proposing that Room 183 be accepted as -RCRA Stable. RFETS requests that Room 183 be used to support the new Size Reduction Facility for D&D Activities under the Building 771 Decommissioning Operations Plan (DOP). Operation of the Size Reduction Facility will result in the generation of both hazardous and nonhazardous wastes which will be managed per the applicable requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and the DOP.
<b>B771 A 000025</b> 03/02/1999 20 Pages PUBLIC	YES, ROUTINE Author(s) HOPKINS, TED A.	TAH-015-99; EPA ID CO7890010526; 98-RF-03702 Recipient(s) NORTH, KARAN	Closure Description Document for Resource Conservation and Recovery Act (RCRA) Tank and Ancillary Equipment Systems 1 and 2 in Building 771 - The Closure Description Document (CDD) for Tank and Ancillary Equipment Systems 1 and 2 has been revised for consistency with the administrative requirements for subsequent CDDs. The revised CDD is attached.
<b>B771 A 000026</b> 03/18/1999 5 Pages PUBLIC	YES, ROUTINE Author(s) HOPKINS, TED A.	TAH-012-99; RF/RMRS-99-337.UN; 98-RF-05998 Recipient(s) NORTH, KARAN	Phase I Summary Report for Tank and Ancillary Equipment System Number 8, in Building 771 - Pursuant to the Resource Conservation and Recovery Act (RCRA) Closure Plan for Interim Status Units (April 1998) (Closure Plan) and the Closure Description Document (CDD) for Tank and Ancillary Equipment System 8 (98-RF-05998), Rocky Mountain Remediation Service (RMRS) is submitting the attached Summary Report. The Summary Report contains a description of major closure activities and a declaration that the tanks in this system meets the requirements for the -

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 7 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000027</b> 01/25/1999 1 Pages PUBLIC	YES, ROUTINE Author(s) SCHIEFFELIN, JOE	RF/RMRS-99-337.UN Recipient(s) APRIL, BOB NORTH, KARAN	Phase I Summary Report for Tank and Ancillary Equipment, System Number 8, in Building 771 - The Colorado Department of Public Health and Environment (CDPHE) Hazardous Waste Management Division (HZMD), has reviewed the Closure Description Document (CDD) for Resource Conservation and Recovery Act (RCRA) Closure of Tanks and Ancillary Equipment in System No. 8, located in Building 771 at the Rocky Flats Environmental Technology Site (RFETS); the Division hereby approves the CDD.
<b>B771 A 000029</b> 01/07/1999 1 Pages PUBLIC	YES, ROUTINE Author(s) ROBBINS, J. C.	JCR-001-99 Recipient(s) ADMINISTRATIVE RECORD SPRINGER, JOE	All Building 771/774 Cluster Closure Project documents submitted to the US Department of Energy, Rocky Flats Field Office (DOE/RFFO) Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Administrative Record (AR) have been accepted under established records acceptance criteria and entered into the AR file. This file has been reviewed and found relevant and complete.
<b>B771 A 000030</b> 07/16/1999 24 Pages PUBLIC	YES, ROUTINE Author(s) HOPKINS, TED A.	RF/RMRS-99.396.UN; TAH-053-99 Recipient(s) NORTH, KARAN	Transmits the enclosed Closure Description Document for Resource Conservation and Recovery Act (RCRA) Closure of Tank and Ancillary Equipment System in Building 771, July 1999. The Rocky Flats Environmental Technology Site (RFETS) RCRA Closure Plan for Interim Status Units (Closure Plan) includes the Mixed Residue tank systems and the Idle Equipment tanks in B771. Decommissioning and removal of tanks and their ancillary piping and other equipment are subject to the Closure Plan and a subsequent Closure Description Document (CDD), which contains a description of the method of closure to be used.

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

Page: 8 of 59  
Report Date: 02-FEB-05

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000031</b> 07/13/1999 5 Pages PUBLIC	YES, ROUTINE Author(s) HOPKINS, TED A.	RF/RMRS-99-373.UN; TAH-054-99 Recipient(s) NORTH, KARAN	RMRS Operations Instruction: Phase I Summary Report for Tank and Ancillary Equipment System No. 4 in Building 771 (B771), July 13, 1999. This Report is a requirement of Section 1.2 of the Closure Description Document (CDD) for this system. The major features of this report include a description of major closure activities and any deviations from those stated in the document, a copy of any newly-generated drawings and relevant analytical results, and a statement regarding whether the Chemical Feed Column included in this system is now eligible for status as -Resource Conservation and Recovery Act (RCRA) Stable'.
<b>B771 A 000032</b> 05/13/1999 2 Pages PUBLIC	YES, ROUTINE Author(s) HOPKINS, TED A.	TAH-037-99; RF/RMRS-99-369.UN Recipient(s) NORTH, KARAN	Transmits the RMRS Closure Description Document (CDD) for Tank and Ancillary Equipment System No 32 in Building 771, May 13, 1999 - This is the Rocky Mountain Remediation Services (RMRS) plan to begin closure of Tank and Ancillary Equipment System No 32 in B771 in May, 1999. This system will be closed in accordance with the Resource Conservation and Recovery Act (RCRA) Closure Plan for Interim Status Units (July 1998) (Closure Plan). A 45 day notification was issued to the Colorado Department of Public Health and Environment (CDPHE) in accordance with the Closure Plan and with 6 CCR 1007-3, Section 265.111.
<b>B771 A 000033</b> 05/13/1999 20 Pages PUBLIC	YES, ROUTINE Author(s) NOT INDICATED	RF/RMRS-99-369.UN; Ref: TAH-037-99 Recipient(s) DISTRIBUTION	Rocky Flats Rocky Mountain Remediation Services (RF/RMRS) Document: Closure Description for Resource Conservation and Recovery Act (RCRA) Closure of Tank and Ancillary Equipment System No 32 in Building 771 (B771), May 13, 1999 - The Rocky Flats Environmental Technology Site (RFETS) RCRA Closure Plan for Interim Status Units includes the Mixed Residue tank systems and the Idle Equipment tanks in B771. Decommissioning and removal of tanks and their ancillary piping and other equipment are subject to the Closure Plan and a subsequent Closure Description Document (CDD), which contains a description of



ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 9 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000034</b> 02/28/1999 7 Pages PUBLIC	YES, ROUTINE Author(s) HOPKINS, TED A.	TAH-004-99; 98-RF-04272; RF/RMRS-99-316.UN Recipient(s) CATHEL, ROBERT	Transmits Rocky Mountain Remediation Services (RMRS) Summary Report of Phase I Resource Conservation and Recovery Act (RCRA) Closure Activities for Tank and Ancillary Equipment System No 7 in Building 771 (B771), January 28, 1999 - The Summary Report contains a description of major closure activities, one drawing modification, a summary of analytical results and a declaration that the tanks in this system have met the requirements for the -RCRA Stable' condition.
<b>B771 A 000035</b> 01/25/1999 1 Pages PUBLIC	YES, ROUTINE Author(s) SCHIEFFELIN, JOE	AR-99-00038 Recipient(s) APRIL, BOB NORTH, KARAN	Colorado Department of Public Health and Environment (CDPHE) Hazardous Waste Management Division (HZMD), Closure Description Document (CDD) Approval for System No 8 in Building 771, January 25, 1999 - The HZMD has reviewed the CDD for Resource Conservation and Recovery Act (RCRA) Closure of Tanks and Ancillary Equipment in System No 8 located in B771 at the Rocky Flats Environmental Technology Site (RFETS). The CDD for System No 8 was received on January 7, 1999. System No 8 will be closed by the method described as Unit Removal in the Site's Interim Status Closure Plan, Section E. As stated in this CDD, ancillary equipment will be removed during Phase I of this project. As a result, the tanks associated with System No 8 will remain until Phase II is complete which is currently scheduled for the year 2006. The Division hereby approves the CDD for Closure of Tanks and Ancillary Equipment in System No 8 in B771.
<b>B771 A 000036</b> 02/02/1999 1 Pages PUBLIC	YES, ROUTINE Author(s) NORTH, KARAN	99-RF-00472; KSN-012-99 Recipient(s) SCHIEFFELIN, JOE	Transmits Kaiser-Hill Company, L.L.C. (K-H) request for approval of Resource Conservation and Recovery Act (RCRA) Stable Status for Tanks in System No 7 in Building 771, February 2, 1999.

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 10 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000037</b> 04/27/1999 5 Pages PUBLIC	YES, ROUTINE Author(s) HOPKINS, TED A.	TAH-031-99; RF/RMRS-99-352.UN Recipient(s) NORTH, KARAN	Transmits Rocky Mountain Remediation Services (RMRS) Phase I Summary Report for Tank and Ancillary Equipment Systems No 1 and No 2 in Building 771 (B771), April 27, 1999 - The summary report contains a description of major closure activities and a declaration that the tanks in these systems meet the requirements for the -Resource Conservation and Recovery Act (RCRA) Stable' condition.
<b>B771 A 000038</b> 02/26/1999 1 Pages PUBLIC	YES, ROUTINE Author(s) SCHIEFFELIN, JOE	AR-99-000040 Recipient(s) LEGARE, JOSEPH A. NORTH, KARAN	Transmits Colorado Department of Public Health and Environment (CDPHE) Hazardous Waste Management Division (HZMD), Closure Description Document (CDD) Approval for System No 19 and No 20 in Building 771 (B771), February 26, 1999 - The HZMD has reviewed the CDD for Resource Conservation and Recovery Act (RCRA) Closure of Tanks and Ancillary Equipment in System No 19 and No 20 located in B771 at the Rocky Flats Environmental Technology Site (RFETS). The CDD for System No 19 and No 20 was received on February 17, 1999. System No 19 and No 20 will be closed by the method described as "Unit Removal" in the Site's Interim Status Closure Plan, Section E. As stated in this CDD, ancillary equipment will be removed during Phase I of this project. The tanks associated with System No 19 and No 20 will remain until phase II is complete which is currently scheduled for 2006.
<b>B771 A 000039</b> 03/22/1999 1 Pages PUBLIC	YES, ROUTINE Author(s) NORTH, KARAN	99-RF-01083; KN-037-99 Recipient(s) SCHIEFFELIN, JOE	Transmits Kaiser-Hill Company, L.L.C. (K-H) Phase I Summary Report for Tank and Ancillary Equipment System No 5 in Building 771, March 22, 1999 - This summary report contains a description of major closure activities and a declaration that one of the tanks in this system meets the requirements for the Resource Conservation and Recovery Act (RCRA) Stable condition.

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

Page: 11 of 59  
Report Date: 02-FEB-05

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000040</b>	YES, ROUTINE	99-RF-01082; 99-DOE-03312; KN-036-99	Transmits US Department of Energy (DOE) and Kaiser-Hill Company, L.L.C. (K-H) request for approval of Resource Conservation and Recovery Act (RCRA) Stable Status for Room 184 Vault in Building 771, March 30, 1999 - The Site requests that Room 184 Vault in Unit 771.1 be deemed RCRA Stable and that weekly RCRA inspections be terminated. Operation of the size reduction facility will result in the generation of both hazardous and non-hazardous wastes which will be managed per the applicable requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and the Decommissioning Operations Plan (DOP).
03/30/1999	Author(s)	Recipient(s)	
3 Pages	LEGARE, JOSEPH A.	SCHIEFFELIN, JOE	
PUBLIC	NORTH, KARAN		
<b>B771 A 000041</b>	YES, ROUTINE	TAH-072-99; RF/RMRS-99-446.UN	Transmittal submitting the Closure Description Document (CDD) for Resource Conservation Recovery Action (RCRA) Closure of Tank and Ancillary Equipment Systems No. 9 in Building 771. Also a draft letter to Colorado Department of Public Health and Environment (CDPHE) is provided.
10/06/1999	Author(s)	Recipient(s)	
2 Pages	HOPKINS, TED A.	NORTH, KARAN	
PUBLIC		TARLTON, STEVE	
<b>B771 A 000042</b>	YES, ROUTINE	RF/RMRS-99-446.UN; TAH-072-99; EPA CO789001052	Closure Description Document (CDD) for Resource Conservation Recovery Action (RCRA) Closure of Tank and Ancillary Equipment System No. 9 in Building 771, October 1999. The Rocky Flats Environmental Technology Site's (RFETS) RCRA Closure Plan for Interim Status Units (Closure Plan) includes the Mixed Residue tank systems and the Idle Equipment tanks in B771. Decommissioning and removal of tanks and their Ancillary piping and other equipment are subject to the Closure Plan and a subsequent Closure Description Document. This CDD applies to Tank and Ancillary Equipment System Np. 9 in B771, also known as Piping Systems No. 9, Special Recovery (Room 146). It applies to the closure of the Mixed Residue tanks associated with this system.
10/06/1999	Author(s)	Recipient(s)	
49 Pages	NOT INDICATED	DISTRIBUTION	
PUBLIC	NOT INDICATED		

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

Page: 12 of 59  
Report Date: 02-FEB-05

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000044</b> 11/03/1999 25 Pages PUBLIC	YES, ROUTINE Author(s) NOT INDICATED NOT INDICATED	RF/RMRS-99-455.UN; TAH-078-99 Recipient(s) DISTRIBUTION	Closure Description Document for Resource Conservation and Recovery Act (RCRA) Closure of Tank and Ancillary Equipment System No. 23 in Building 771. The Rocky Flats Environmental Technology Site's (RFETS) RCRA Closure Plan for Interim Status Units (Closure Plan) includes the Mixed Residue tank systems and the Idle Equipment tanks in Building 771. Decommissioning and removal of tanks and their ancillary piping and other equipment are subject to the Closure Plan and a subsequent Closure Description Document (CDD), which contains a description of the method of closure to be used.
<b>B771 A 000045</b> 11/04/1999 1 Pages PUBLIC	YES, ROUTINE Author(s) HOPKINS, TED A.	TAH-078-99; RF/RMRS-99-455.UN Recipient(s) NORTH, KARAN	Transmittal of letter submitting Closure Description Document (CDD) for Tank and Ancillary Equipment System No. 23 in Building 771, November 3, 1999.
<b>B771 A 000046</b> 11/24/1999 1 Pages PUBLIC	YES, ROUTINE Author(s) HOPKINS, TED A.	TAH-080-99; RF/RMRS-99-464.UN; (RF/RMRS-99-410.1 Recipient(s) NORTH, KARAN	Pursuant to the Resource Conservation and Recovery Act (RCRA) Closure Plan for Interim Status Units (July 1998) (Closure Plan) and the Closure Description Document for Tank and Ancillary Equipment System No. 12, Rocky Mountain Remediation Services (RMRS) submits the attached Summary Report of Phase I RCRA Closure Activities for Tank and Ancillary Equipment System No. 12 in Building 771.
<b>B771 A 000047</b> 11/22/1999 4 Pages PUBLIC	YES, ROUTINE Author(s) NOT INDICATED	RF/RMRS-99-464.UN; EPA ID. CO7890010526; TAH-08 Recipient(s) DISTRIBUTION	Summary Report of Phase I RCRA Closure Activities for Tank and Ancillary Equipment System No. 12 in Building 771.

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 13 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
B771 A 000048 11/24/1999 3 Pages PUBLIC	YES, ROUTINE Author(s) HOPKINS, TED A.	TAH-081-99; RF/RMRS-99-464.UN Recipient(s) NORTH, KARAN	Request for approval of -RCRA Stable' Status for Tanks D-764 and D-765 in System No. 12 in Building 771 - Because the tanks are now isolated from all remaining process piping, and the termination points have been sealed, no additional liquids can be introduced into the tanks. In addition, the tanks are empty of liquids in that no additional liquids could be removed from the tap on the drain line at the bottom of each tank.
B771 A 000049 11/24/1999 1 Pages PUBLIC	YES, ROUTINE Author(s) HOPKINS, JOHN K.	TAH-076-99; RF/RMRS-99-450.UN Recipient(s) NORTH, KARAN	Submits the attached [000050] Summary Report of Phase I RCRA Closure Activities for Tank and Ancillary Equipment System No. 18 in Building 771, November 1999.
B771 A 000050 11/22/1999 7 Pages PUBLIC	YES, ROUTINE Author(s) NOT INDICATED	RF/RMRS-99-450.UN; TAH-076-99 Recipient(s) DISTRIBUTION	Summary Report of Phase I RCRA Closure Activities for Tank and Ancillary Equipment System No. 18 in Building 771, November 1999 - This report contains a description of major closure activities and a declaration that the tanks in this system meet the requirements for the -RCRA Stable' condition.
B771 A 000051 11/24/1999 3 Pages PUBLIC	YES, ROUTINE Author(s) HOPKINS, JOHN K.	TAH-082-99; RF/RMRS-99-450.UN Recipient(s) NORTH, KARAN	Request for approval of "RCRA Stable" Status for tanks in System No. 18 in Building 771.
B771 A 000052 11/15/1999 8 Pages PUBLIC	YES, ROUTINE Author(s) SMITH, ED	EPA ID: CO7890010526 Recipient(s) NORTH, KARAN	Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division Closeout of the September 2, 1999 Subpart BB Organic Air Emission Inspection of Building 774 - The purpose of the CDPHE's September 2, 1999 routine compliance inspection was to determine compliance with the Subpart BB Air Emission Standards for Equipment Leaks as applied to Tanks

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 14 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000053</b> 11/08/1999 1 Pages PUBLIC	YES, ROUTINE Author(s) TARLTON, STEVE	None Recipient(s) LEGARE, JOSEPH A. NORTH, KARAN	Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division (the Division) Closure Description Document approval for Resource Conservation and Recovery Act (RCRA) System No. 9 in Building 771 - The CDD for System 9 was received on October 26, 1999. System 9 will be closed by the method described as '-Unit Removal' in the Site's Interim Status Closure Plan, Section E. As stated in this CDD, ancillary equipment will be removed during Phase I of this project. The tanks themselves will be removed at a later date during Phase II as part of Decontamination and Decommissioning (D&D) Set No. 36.
<b>B771 A 000054</b> 11/09/1999 3 Pages PUBLIC	YES, ROUTINE Author(s) HOPKINS, TED A.	TAH-079-99 Recipient(s) PIZZUTO, VICTOR M.	Rocky Mountain Remediation Services (RMRS) requests approval for interim storage for liquids Low-Level Waste (LLW), Transuranic Mixed (TRM), and Mixed Residue, generated from tap and drain activities for remaining solution systems in Building 771.
<b>B771 A 000055</b> 12/09/1999 2 Pages PUBLIC	YES, ROUTINE Author(s) HOPKINS, TED A.	TAH-083-99; RF/RMRS-99-466.UN Recipient(s) NORTH, KARAN	Submits the attached [000056] Closure Description Document (CDD) for Tank and Ancillary Equipment System No. 21 in Building 771. The CDD contains a description of the system to be closed, the selected method of closure, the types of contamination to be addressed and the schedule for closure activities.
<b>B771 A 000056</b> 12/09/1999 32 Pages PUBLIC	YES, ROUTINE Author(s) NOT INDICATED	RF/RMRS-99-466.UN; TAH-083-99 Recipient(s) DISTRIBUTION	Closure Description Document (CDD) for Tank and Ancillary Equipment System No. 21 in Building 771, December 13, 1999.

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 15 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000057</b> 12/28/1999 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C.	Recipient(s) DISTRIBUTION	Purpose of Contact: Provides the report and discusses premature process pipe removal from System No.14, Building 771.
<b>B771 A 000062</b> 02/03/1987 2 Pages PUBLIC	YES, ROUTINE WS-LT-00022 Author(s) RICHARDELLA, R. E.	Recipient(s) DISTRIBUTION	On January 8, 1987, a team was established to recommend a final disposition for Room 141, Building 771. The team was chartered to evaluate the three listed options. Decontamination can be accomplished with minimal risk. Additionally, decontamination of the room addresses the problem of potential environmental impacts as a result of contamination migration through the concrete floor.
<b>B771 A 000063</b> 02/27/1987 2 Pages PUBLIC	YES, ROUTINE WS-LT-00023 Author(s) HAWES, R. W.	Recipient(s) POTTER, G. L.	In response to several Directors' questions about removal of the dirt under the floor of Room 141, in Building 771: The recommendations in the study are to sample the pieces of concrete floor as it is removed to determine how much to remove. If the contamination penetrates only three or four inches, then removal is to stop at that point and a new concrete floor poured on top of the existing floor. If contamination continues throughout the concrete, the entire floor is to be removed. As far as the soil under the floor is concerned, soil will only be removed if it is feasible to do so for very small spots.
<b>B771 A 000064</b> 01/30/1987 5 Pages PUBLIC	YES, ROUTINE WS-LT-00024 Author(s) ROOM 141 DISPOSITION TE	Recipient(s) RICHARDELLA, R. E.	This report consists of this letter describing the team evaluation and recommendations. The team was formed to evaluate three options and recommend the final disposition of Room 141, Building 771. Room 141 was abandoned in a contaminated condition in 1971 and closed to personnell access. A cleanup effort at that time was stopped due to high contamination levels and lack of funding. Recently, plantwide decontamination planning has focused attention on the Room 141 issue. Generally, contamination from Room 141 has not

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 16 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000065</b> 01/29/1987 1 Pages PUBLIC	YES, ROUTINE Author(s) BRANDON, D. M.	WS-LT-00025 Recipient(s) PARKER, J. F.	Letter states -In accordance with good practices and reducing radiation exposure to As Low As Reasonably Achievable (ALARA), every effort must be made to reduce contamination levels to the lowest levels possible. Realizing that it is probably not costbeneficial or practicable to reduce all levels, the following limits are listed for the Room 141 decontamination effort'.
<b>B771 A 000066</b> 01/19/1987 1 Pages PUBLIC	YES, ROUTINE Author(s) NAU, R. J.	WS-LT-00026 Recipient(s) RICHARDELLA, R. E.	Letter regarding the use, or nonuse, of Room 141 in Building 771. The room has been sealed up for a number of years due to contamination problems. Discusses filling the room with concrete and losing its avallability until the building could be dismantled. This does not alleviate the potential problem of radioactive materials being washed into the subsoil and possibly out from beneath the building. With the current safeguard posture, the conversion of the room into a storage area for metal would solve a major problem. The additional benefit of storage of materials would decrease the radiation exposure to operators.
<b>B771 A 000067</b> 01/08/1987 1 Pages PUBLIC	YES, ROUTINE Author(s) RICHARDELLA, R. E.	WS-LT-00028 Recipient(s) DISTRIBUTION	Room 141 in Building 771 was sealed off to personnel access because of very high contamination levels. A determination of the final disposition of this room must be made. Three options are listed. A team has been established to evaluate the advantagesand disadvantages of these options. The team should issue a report evaluating each option and making a recommendation for final disposition of Room 141.
<b>B771 A 000068</b> 01/19/1987 1 Pages PUBLIC	YES, ROUTINE Author(s) PETERS, KEN	WS-LT-00027 Recipient(s) PARKER, JOHN	Letter regarding the Nuclear Materials Safeguards Procedure Manual, Section 10-10. This section states that all waste placed into waste boxes must first be placed in white waste drums and drum counted to determine the nuclear material content. The only exception to this is large pieces of metal such as Glovebox sections. Exception to this procedure will be granted on an individual basis by NMA and Safeguards measurements. All strip out activities must be pre-arranged



**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

Page: 17 of 59  
Report Date: 02-FEB-05

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000069</b> 09/25/1990 3 Pages PUBLIC	YES, ROUTINE Author(s) TERRY, ROBERT W.	Recipient(s) NOT INDICATED	Rocky Flats Monthly Exchange of Environmental Information Meeting Minutes for meeting of September 25, 1990.
<b>B771 A 000075</b> 06/13/1980 5 Pages PUBLIC	YES, ROUTINE 80-RF-1205 Author(s) CRITES, T. R.	Recipient(s) OFTE, D.	Rockwell International provides the US Department of Energy (DOE) the enclosed summary that DOE requested of the 1957 Fire. A review of the September 11, 1957 Fire at the Rocky Flats Plant in Plant Building Number 771, By C.W. Barrick, Environmental Sciences Department.
<b>B771 A 000076</b> 09/29/1994 1 Pages PUBLIC	YES, ROUTINE 94-RF-09942; AHB-192-94 Author(s) BURLINGAME, ANSON H.	Recipient(s) SILVERMAN, MARK N.	EG&G Rocky Flats, Inc. explains the Characterization of Uranium (U) Holdup to the US Department of Energy (DOE). EG&G recognizes that there is a need for a comprehensive plan for the accurate characterization of fissile materials prior to any Deactivation and/or Decontamination and Decommissioning (D&D) activities.
<b>B771 A 000086</b> 02/08/2000 3 Pages PUBLIC	YES, ROUTINE N/A Author(s) SPRINGER, JOE	Recipient(s) NOT INDICATED	Purpose of Contact: Rocky Flats Environmental Technology Site (RFETS) Regulatory contact record regarding notification to Colorado Department of Public Health and Environment (CDPHE) of deviations from the Set Description and Major Endpoints Identified in Appendix of the Building 771 and 774 Decommissioning Operations Plan (DOP).
<b>B771 A 000091</b> 04/20/1999 4 Pages PRELIM	REJECT, NON- TAH-027-99 Author(s) HOPKINS, TED A.	Recipient(s) PIZZUTO, VICTOR M.	Rocky Mountain Remediation Services (RMRS) correspondence regarding request for interim storage of Low-Level Waste (LLW), Transuranic Mixed (TRM) and Mixed Residue Waste from System No. 3 / Room 181A, 13, 21, 26 and 32 in Building 771. Approval for interim storage of liquids generated from tap and drain activities. Specific rooms and gloveboxes are listed.

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 18 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000104</b> 04/20/1999 5 Pages PRELIM	REJECT, NON- Author(s) HOPKINS, TED A.	TAH-038-99 Recipient(s) PIZZUTO, VICTOR M.	Rocky Mountain Remediation Services (RMRS) correspondence regarding Request for Interim of Low-Level Waste (LLW), Transuranic Mixed (TRM) and Mixed Residue Wastes form Tap and Drain Activities in Building 771. All of the liquids will be drained into 4-liter bottles per the applicable criticality safety evaluation and stored in the interim storage areas pending required sample results. A draft copy of the above to Joe Schleffelin of Colorado Department of Public Health and Environment (CDPHE).
<b>B771 A 000105</b> 01/03/2000 3 Pages PUBLIC	YES, ROUTINE N/A Author(s) BAKER, R. C.	N/A Recipient(s) GILBREATH, CHRIS C.	Purpose of Contact: Contact December 29, 1999, to report and discuss premature process pipe removal from system 14 Building 771
<b>B771 A 000106</b> 04/21/1992 79 Pages PUBLIC	YES, ROUTINE DE-AC001-90EW48063 Author(s) NOT INDICATED	DE-AC001-90EW48063 Recipient(s) NOT INDICATED	Facility history for Building 771 at the Rocky Flats Plant (RFP) as it undergoes a transfer from production to decontamination and decommissioning (D&D).
<b>B771 A 000109</b> 04/17/2000 3 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C. SPRINGER, JOE	N/A Recipient(s)	Purpose of Contact: Rocky Flats Environmental Technology Site (RFETS) Regulatory Contract Record to notify Colorado Department of Public Health and Environment (CDPHE) of completion of work and notification of deviations from the Set Description and Major Endpoints identified in Appendix 9 of the B771/774 Decommissioning Operations Plan (DOP). This Contract Record documents the walkdowns that were conducted on April 17, 2000 and April 25, 2000.

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

Page: 19 of 59  
Report Date: 02-FEB-05

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000110</b> 05/29/2000 2 Pages PUBLIC	YES, ROUTINE Author(s) LEITNER, RANDY M.	Recipient(s) GILBREATH, CHRIS C.	Purpose of Contact: Discussion of Integrated Work Control Program (IWCP) for removal of interior walls in B770. Unless contacted by Colorado Department of Public Health and Environment (CDPHE), the activities will proceed as scheduled.
<b>B771 A 000111</b> 06/14/2000 3 Pages PUBLIC	YES, ROUTINE Author(s) LEGARE, JOSEPH A.	00-DOE-02681 Recipient(s) GUNDERSON, STEVE	US Department of Energy, Rocky Flats Field Office (DOE/RFFO) submits Field Modification to the Building 771 and 774 Decommissioning Operations Plan (DOP) regarding deviations in the following completed workset major endpoints.
<b>B771 A 000112</b> 06/07/2000 6 Pages PUBLIC	YES, ROUTINE Author(s) LEGARE, JOSEPH A.	00-RF-02515 Recipient(s) GUNDERSON, STEVE REHDER, TIMOTHY	US Department of Energy, Rocky Flats Field Office (DOE/RFFO) submits letter on the subject of Rocky Flats Cleanup Agreement (RFCA) Milestone List. Field Modification No. 1 for Building 771/774 Closure Project Decommissioning Operations Plan (DOP) Revision 0, dated December 7, 1998.
<b>B771 A 000113</b> 06/26/2000 2 Pages PUBLIC	YES, ROUTINE Author(s) KRUCHEK, DAVID SPRINGER, JOE	N/A Recipient(s)	Purpose of Contact: Rocky Flats Environmental Technology Site (RFETS) Regulatory Contact Record notifying Colorado Department of Public Health and Environment (CDPHE) of Completion of Workset No. 38A and to provide clarification for Workset No. 50, Room 168 Major Endpoint.
<b>B771 A 000114</b> 06/14/2000 4 Pages PUBLIC	YES, ROUTINE Author(s) LEGARE, JOSEPH A.	00-RF-02681 Recipient(s) GUNDERSON, STEVE	US Department of Energy, Rocky Flats Field Office (DOE/RFFO) submits document agreements during discussions and walkdowns regarding deviations in the workset endpoints of Major Modification No. 2 to the Buildings 771/774 Decommissioning Operations Plan (DOP).

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

Page: 20 of 59  
Report Date: 02-FEB-05

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000115</b> 06/27/2000 1 Pages PUBLIC	YES, ROUTINE N/A Author(s) GUNDERSON, STEVE	Recipient(s) LEGARE, JOSEPH A.	Colorado Department of Public Health and Environment (CDPHE) submits letter regarding transferring liquids to Building 774 through sanitary drains. Sanitary drains have been previously determined to be connected to the Sewage Treatment Plant (STP) and would not flow to Building 774.
<b>B771 A 000116</b> 02/17/2000 6 Pages PUBLIC	YES, ROUTINE TAH-015-00; RF/RMS-2000-025.UN Author(s) HOPKINS, TED A.	Recipient(s) NORTH, KARAN	Rocky Mountain Remediation Services, L.L.C. (RMRS) submits the enclosed Summary Report of Final Resource Conservation and Recovery Act (RCRA) Closure Activities for Container Storage Unit 90.97 in Building 771 and requests approval from Kaiser-Hill Company, L.L.C. (K-H). The Report also contains information ordinarily contained in a Closure Description Document, along with the declaration that unit 90.97 in now clean closed by method of Unit Removal. Also a letter to Colorado Department of Public Health and Environment (CDPHE) requesting approval is attached.
<b>B771 A 000117</b> 11/15/2000 51 Pages PUBLIC	YES, ROUTINE N/A Author(s) NOT INDICATED	Recipient(s) NOT INDICATED	International Technology Corporation forwards Reconnaissance Level Characterization Report (RLCR) Type 1 Facilities, 771 Closure Project, Revision 0 dated November 8, 2000 to CERCLA Administrative Record (AR), upon request.
<b>B771 A 000118</b> 11/16/2000 22 Pages PUBLIC	YES, ROUTINE SJR-001-00 Author(s) ROBERTS, SARAH	Recipient(s) NOT INDICATED	Kaiser-Hill Company, L.L.C. (K-H) forwards Building 771 Reconnaissance Level Characterization (RLC) Type 2 Data Summaries. This summary includes Building 771 Annex Rooms 301, 302, 303, 304, 305, 306, 308, 309. This summary also consists of Building 771 Exhaust Stack.
<b>B771 A 000119</b> 08/08/1998 54 Pages PUBLIC	YES, ROUTINE N/A Author(s) LARSEN, BRIAN D.	Recipient(s) NOT INDICATED	Building 771/774 Cluster Closure Project Reconnaissance Level Characterization Report (RLCR), August 8, 1998. The purpose of this RLCR is to {1} establish a preliminary estimate of the type of contamination or safety hazard present, and {2} type and tractability of radiation and hazardous substances contamination and physical hazards will be evaluated. The

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

Page: 21 of 59  
Report Date: 02-FEB-05

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000120</b> 11/08/2000 297 Pages PUBLIC	YES, ROUTINE Author(s) NOT INDICATED SCOTT, TOM	N/A Recipient(s) NOT INDICATED	Reconnaissance Level Characterization Report (RLCR) Supplement, Type 1 Facilities 771 Closure Project, Revision 0 dated November 8, 2000. This document contains Attachments A through Z, with Survey Maps, Investigation Data and Minimum Detectable Concentration Calculations, Attachment AA, AB and AC.
<b>B771 A 000121</b> 11/06/2000 2 Pages PUBLIC	YES, ROUTINE Author(s) LEGARE, JOSEPH A.	00-DOE-03961 Recipient(s) GUNDERSON, STEVE	US Department of Energy, Rocky Flats Field Office (DOE/RFFO) forwards Building 771 Closure Project Decommissioning Operations Plan (DOP) Modification 3 and Proposed Action Memorandum (PAM) for Under Building Contaminant (UBC) Remediation dated October 31, 2000. This DOP/PAM applies to decommissioning action for Buildings 771 Closure Project and addresses the UBC associated with Buildings 770, 771, 771C and 774 process waste lines beneath these buildings.
<b>B771 A 000122</b> 10/31/2000 125 Pages PUBLIC	YES, ROUTINE Author(s) NOT INDICATED	00-DOE-03961 Recipient(s) NOT INDICATED	Building 771 Closure Project Decommissioning Operations Plan (DOP) Modification 3 and Proposed Action Memorandum (PAM) for Under Building Contaminant (UBC) Remediation dated October 31, 2000. This DOP/PAM applies to decommissioning action for Buildings 771 Closure Project and addresses the UBC associated with Buildings 770, 771, 771C and 774 process waste lines beneath these buildings.
<b>B771 A 000123</b> 11/16/2000 2 Pages PUBLIC	YES, ROUTINE Author(s) DALTON, HENRY F.	00-DOE-03964 Recipient(s) STAKEHOLDER	US Department of Energy, Rocky Flats Field Office (DOE/RFFO) forwards the Building 771 Closure Project Decommissioning Operations Plan (DOP) Modification 3 and Proposed Action Memorandum (PAM) for Under Building Contaminant (UBC) Remediation Decision Document.

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 22 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000124</b> 12/12/2000 2 Pages PUBLIC	YES, ROUTINE Author(s) STEVENS, JEFFREY L.	00-RF-03183; JLS-019-00 Recipient(s) SPRINGER, JOE	Kaiser-Hill Company, L.L.C. (K-H) submits the Supplemental Reconnaissance Level Characterization Report (RLCR) for the Type 1 Facilities for the Building 771 Project dated December 19, 2000, to US Department of Energy, Rocky Flats Field Office (DOE/RFFO). This report is a supplement to the original RLCR dated August 8, 1998 and provides additional data to characterize the physical, chemical and radiological hazards associated with the Facilities.
<b>B771 A 000125</b> 12/19/2000 50 Pages PUBLIC	YES, ROUTINE Author(s) NOT INDICATED	00-RF-03183; JLS-019-00 Recipient(s) NOT INDICATED	Reconnaissance Level Characterization Report (RLCR) Supplement Type 1 Facilities, Building 771 Closure Project dated December 19, 2000. This report is a supplement to the original RLCR dated August 8, 1998 and provides additional data to characterize the physical, chemical and radiological hazards associated with the Facilities.
<b>B771 A 000126</b> 12/14/2000 20 Pages PUBLIC	YES, ROUTINE N/A Author(s) GARCIA, SHIRLEY	Recipient(s) FOSS, DYAN	City of Broomfield comments on the 771 Closure Project Decommissioning Operations Plan (DOP) Modification 3 and Proposed Action Memorandum (PAM) for Under-Building Contamination (UBC) Remediation dated October 31, 2000. Broomfield wants to ensure the 771 DOP is a job-specific plan that addresses the detail of decommissioning operations that will protect human health and the environment; City has strong concerns.
<b>B771 A 000127</b> 01/06/2001 1 Pages PUBLIC	YES, ROUTINE N/A Author(s) GARCIA, SHIRLEY	Recipient(s) MADORE, CATHERINE FOSS, DYAN	Modification of City of Broomfield letter dated December 14, 2000 concerning the 771 Closure Project Decommissioning Operations Plan (DOP) Modification 3 and Proposed Action Memorandum (PAM) for Under Building Contamination (UBC) Remediation dated October 31, 2000. The following comment issues have been resolved or clarified and therefore no longer need to be addressed: ...

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 23 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000128</b> 01/10/2001 4 Pages PUBLIC	YES, ROUTINE Author(s) GUNDERSON, STEVE ONYSKIW, DENISE M.	N/A Recipient(s) LEGARE, JOSEPH A.	Colorado Department of Public Health and Environment (CDPHE) Hazardous Waste Management Division (HZMD) comments concerning the 771 Closure Project Decommissioning Operations Plan (DOP) Modification 3 and Proposed Action Memorandum (PAM) for Under Building Contamination (UBC) Remediation, dated October 31, 2000. Three significant portions of this DOP will not be approved by the Division. The first is the use of explosives to drop the stack, the second is the Decontamination and Decommissioning (D&D) of the tunnels, and the third is the Environmental Restoration (ER) section qualifying as a Proposed Action Memorandum (PAM). Additional details are included in the enclosed comments.
<b>B771 A 000129</b> 01/09/2001 4 Pages PUBLIC	YES, ROUTINE Author(s) ABELSON, DAVID M.	N/A Recipient(s) FOSS, DYAN	Rocky Flats Coalition of Local Governments (RFCLG) comments concerning the 771 Closure Project Decommissioning Operations Plan (DOP) Modification 3 and Proposed Action Memorandum (PAM) for Under Building Contamination (UBC) Remediation dated October 31, 2000. While the Board believes the general approach is solid, there are specific issues that it believes must be more thoroughly addressed: Use of explosives; exception to the RSOP for Recycling Concrete; air monitoring; water quality; UBC remediation; stewardship
<b>B771 A 000130</b> 12/11/2000 5 Pages PUBLIC	YES, ROUTINE Author(s) HARLOW, MARY	N/A Recipient(s) FOSS, DYAN	City of Westminster comments concerning the 771 Closure Project Decommissioning Operations Plan (DOP) Modification 3 and Proposed Action Memorandum (PAM) for Under Building Contamination (UBC) Remediation dated October 31, 2000.

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

Page: 24 of 59  
Report Date: 02-FEB-05

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000131</b> 02/01/2001 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) GARCIA, SHIRLEY	Recipient(s) STEVENS, JEFFREY L. FOSS, DYAN	Contact Record: Discussed responses to comments provided by the City of Broomfield concerning the 771 Closure Project Decommissioning Operations Plan (DOP) Modification 3 and Proposed Action Memorandum (PAM) for Under Building Contamination (UBC) Remediation dated October 31, 2000. Issues resolved.
<b>B771 A 000132</b> 02/01/2001 3 Pages PUBLIC	YES, ROUTINE N/A Author(s) AGUILAR, MARK LOMBARDI, ERINIE	Recipient(s) STEVENS, JEFFREY L. FOSS, DYAN	Contact Record: Discussed responses to comments provided by the US Environmental Protection Agency (EPA) concerning the 771 Closure Project Decommissioning Operations Plan (DOP) Modification 3 and Proposed Action Memorandum (PAM) for Under Building Contamination (UBC) Remediation, dated October 31, 2000. Issues resolved.
<b>B771 A 000133</b> 10/31/2000 119 Pages PUBLIC	YES, ROUTINE N/A Author(s) NOT INDICATED	Recipient(s) DISTRIBUTION	Rocky Flats Environmental Technology Site (RFETS) 771 Closure Project Decommissioning Operations Plan (DOP) Major Modification 3 and Proposed Action Memorandum (PAM) for Under Building Contamination (UBC) Remediation dated October 31, 2000; Predecisional Draft for Public Comment. This maj mod to the January 1999 DOP for the 771 Closure Project applies to Type 2 and Type 3 buildings.
<b>B771 A 000134</b> 02/14/2001 7 Pages PUBLIC	YES, ROUTINE N/A Author(s) SPRENG, CARL	Recipient(s) PRIMROSE, ANNETTE L.	Regulatory Contact Record: Discusses comments on the Environmental Remediation portion of the Building 771 Decommissioning Operations Plan (DOP).
<b>B771 A 000135</b> 03/02/2001 1 Pages PUBLIC	YES, ROUTINE N/A Author(s) GUNDERSON, STEVE	Recipient(s) LEGARE, JOSEPH A.	Colorado Department of Public Health and Environment (CDPHE) grants approval for the Building 771 Closure Project Decommissioning Operations Plan (DOP) Modification 3 and Proposed Action Memorandum (PAM) for Under Building Contaminant (UBC) Contamination Remediation, dated February 28, 2001.



ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 25 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000136</b> 03/12/2001 4 Pages PUBLIC	YES, ROUTINE Author(s) LEGARE, JOSEPH A.	01-DOE-00367 Recipient(s) GUNDERSON, STEVE REHDER, TIMOTHY	US Department of Energy (DOE) forwards the Building 771 Closure Project Decommissioning Operations Plan (DOP) Modification 3 and Proposed Action Memorandum (PAM) for Under Building Contaminant (UBC) Remediation dated February 28, 2001. This DOP also includes responses to written public comments. The plan has been approved by the Colorado Department of Public Health and Environment (CDPHE).
<b>B771 A 000137</b> 02/28/2001 150 Pages PUBLIC	YES, ROUTINE Author(s) DISTRIBUTION	01-DOE-00367 Recipient(s) DISTRIBUTION	Building 771 Closure Project Decommissioning Operations Plan (DOP) Modification 3 and Proposed Action Memorandum (PAM) for Under Building Contaminant (UBC) Remediation, dated February 28, 2001.
<b>B771 A 000138</b> 03/23/2001 9 Pages PUBLIC	YES, ROUTINE N/A Author(s) SPRENG, CARL	Recipient(s) SPENCE, TRACEY	Purpose of Contact: The additional clarification sent on March 22, 2001 was acceptable for the Building 771 Industrial Area (IA) Sampling and Analysis Plan (SAP) Addendum. The Colorado Department of Public Health and Environment (CDPHE) is comfortable with the concept of using surrogate analytes in future characterization activities.
<b>B771 A 000139</b> 03/15/2001 15 Pages PUBLIC	YES, ROUTINE N/A Author(s) SPENCE, TRACEY	Recipient(s) DISTRIBUTION	Addendum 1 to the Industrial Area Sampling and Analysis Plan (IASAP) Preliminary Building 771 Under Building Contaminant (UBC), dated March 15, 2001. This document describes the sampling locations, potential contaminants, and any additional Data Quality Objectives (DQOs) and sampling and analysis approaches. Health and safety concerns unique to a specific Individual Hazardous Substance Site (IHSS), Potential Areas of Concern (PACs) and UBC sites are scheduled for evaluation.

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000140</b> 03/23/2001 2 Pages PUBLIC	YES, ROUTINE Author(s) STEVENS, JEFFREY L.	01-RF-00524; JLS-005-01 Recipient(s) SPRINGER, JOE	Kaiser-Hill Company, L.L.C. (K-H) submits the revised Supplemental Reconnaissance Level Characterization Report (RLCR) for the Type 1 and Type 2 Facilities for Building 771 Project. This report is for review and approval to the US Department of Energy (DOE).
<b>B771 A 000141</b> 03/19/2001 324 Pages PUBLIC	YES, ROUTINE Author(s) NOT INDICATED ROBERTS, R. S.	01-RF-00524; JLS-005-01; SJR-001-99; SJR-004-99 Recipient(s) DISTRIBUTION	Supplemental Reconnaissance Level Characterization Report (RLCR) for the Type 1 and Type 2 Facilities for Building 771 Closure Project, Revision 1 dated March 19, 2001. Included in this supplement is the performance of scan surveys with the bicron/ne DP8 probe for Building 779 Cluster Final Status Surveys, Revision 2. Alpha scan rates for building 779 cluster final status surveys are attached.
<b>B771 A 000142</b> 04/06/2001 1 Pages PUBLIC	YES, ROUTINE N/A Author(s) NOT INDICATED	Recipient(s) DISTRIBUTION	Group-B: Trailer T771D Type 1 Facility Closeout Report. T771D, Office Trailer, formerly located west of Building 771 at Rocky Flats Environmental Technology Site (RFETS).
<b>B771 A 000143</b> 04/10/2001 1 Pages PUBLIC	YES, ROUTINE N/A Author(s) GUNDERSON, STEVE	Recipient(s) LEGARE, JOSEPH A.	Colorado Department of Public Health and Environment (CDPHE) has reviewed the Decontamination and Decommissioning Characterization Protocol (DDCP), Pre-Demolition Survey (PDS) and Reconnaissance Level Characterization Plan (RLCP). These documents are all indicated to be Revision 3, dated April 23, 2001 and have been approved.
<b>B771 A 000144</b> 04/12/2001 2 Pages PUBLIC	YES, ROUTINE Author(s) LEGARE, JOSEPH A.	01-DOE-00616 Recipient(s) GUNDERSON, STEVE	US Department of Energy (DOE) forwards the Reconnaissance Level Characterization Report (RLCR) Supplement, Type 1 and Type 2 Facilities, Building 771 Closure Project, Revision 1 to the Colorado Department of Public Health and Environment (CDPHE).

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

Page: 27 of 59  
Report Date: 02-FEB-05

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000145</b> 04/12/2001 2 Pages PUBLIC	YES, ROUTINE Author(s) LEGARE, JOSEPH A.	01-DOE-00617 Recipient(s) REHDER, TIMOTHY	US Department of Energy (DOE) forwards the Reconnaissance Level Characterization Report (RLCR) Supplement, Type 1 and Type 2 Facilities, Building 771 Closure Project, Revision 1 to the US Environmental Protection Agency (EPA).
<b>B771 A 000146</b> 03/23/2001 2 Pages PUBLIC	YES, ROUTINE Author(s) STEVENS, JEFFREY L.	01-RF-00524; JLS-005-01 Recipient(s) SPRINGER, JOE	Kaiser-Hill Company, L.L.C. (K-H) submits the Revised Supplemental Reconnaissance Level Characterization Report (RLCR) for the Type 1 and Type 2 Facilities for Building 771 Closure Project. The supplemental RLCR dated March 7, 2001 has been revised to be consistent with the 771 Decommissioning Operations Plan (DOP).
<b>B771 A 000147</b> 07/02/2001 1 Pages PUBLIC	YES, ROUTINE N/A Author(s) SPRINGER, JOE	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Notifies the Colorado Department of Public Health and Environment (CDPHE) of the completion of Workset No. 67. The Site can count this as a completed Rocky Flats Cleanup Agreement (RFCA) Milestone Workset for FY01.
<b>B771 A 000148</b> 07/12/2001 1 Pages PUBLIC	YES, ROUTINE N/A Author(s) GUNDERSON, STEVE	Recipient(s) LEGARE, JOSEPH A.	Colorado Department of Public Health and Environment (CDPHE) has reviewed the Reconnaissance Level Characterization Report (RLCR) Supplement, 771 Annex, Stack and Outbuildings, Building 771 Closure Project, Revision 2 dated June 15, 2001. Hereby concurring with the Typing of the facilities as indicated in this RLCR.
<b>B771 A 000149</b> 07/31/2001 1 Pages PUBLIC	YES, ROUTINE N/A Author(s) ONYSKIW, DENISE M.	Recipient(s) SPRINGER, JOE	Purpose of Contact: Notification to Colorado Department of Public Health and Environment (CDPHE) of completion of Workset No. 69. This documents the complete Rocky Flats Cleanup Agreement (RFCA) Milestone for Fiscal Year 2001.

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 28 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000150</b> 06/16/2001 1 Pages PUBLIC	YES, ROUTINE N/A Author(s) STEVENS, JEFFREY L.	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Notification of Argon Tank (T174) removal. The PRE had been used to prove that the tanks meet the unrestricted release criteria.
<b>B771 A 000151</b> 06/28/2001 1 Pages PUBLIC	YES, ROUTINE N/A Author(s) STEVENS, JEFFREY L.	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Notification of Aragon Tank Removal No. 197, aka Tank No. 207. These tanks meet the unrestricted release criteria.
<b>B771 A 000152</b> 09/05/2001 1 Pages PUBLIC	YES, ROUTINE N/A Author(s) SPRINGER, JOE	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Notification to the Colorado Department of Public Health and Environment (CDPHE) of completion of Workset No. 68.
<b>B771 A 000153</b> 09/06/2001 1 Pages PUBLIC	YES, ROUTINE N/A Author(s) SCHIEFFELIN, JOE	Recipient(s) LEGARE, JOSEPH A.	Approval of minor modification to Building 771 Closure Project Decommissioning Operations Plan (DOP) Modification 3 and Proposed Action Memorandum (PAM) for Under Building Contaminant UBC Remediation.
<b>B771 A 000154</b> 08/23/2001 1 Pages PUBLIC	YES, ROUTINE N/A Author(s) SPRINGER, JOE	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Notification to the Colorado Department of Public Health and Environment (CDPHE) of completion of Workset No. 38.

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 29 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000155</b> 09/06/2001 129 Pages PUBLIC	YES, ROUTINE Author(s) NOT INDICATED	N/A Recipient(s) DISTRIBUTION	771 Closure Project Decommissioning Operations Plan (DOP) Modification 4 and Proposed Action Memorandum (PAM) for Under Building Contamination Remediation, dated September 6, 2001.
<b>B771 A 000156</b> 09/27/2001 1 Pages PUBLIC	YES, ROUTINE Author(s) BUTLER, J. LANE	01-RF-02309 Recipient(s) CASTANEDA, NORMA	Submits the attached [000157] Final Building 771 Phase I Under Building Contaminant (UBC) Sampling Report. This report documents the results of the preliminary (Phase I) characterization of potential UBC near the inside perimeter of B771. These analytical results will initially be used to assist B771 in developing the building demolition strategy and support future characterization planned in 2003.
<b>B771 A 000157</b> 09/27/2001 44 Pages PUBLIC	YES, ROUTINE Author(s) NOT INDICATED	Ref: 01-RF-02309 Recipient(s) DISTRIBUTION	Final Building 771 Phase I Under Building Contaminant (UBC) Sampling Report September 2001. This report documents the results of the preliminary (Phase I) characterization of potential UBC near the inside perimeter of B771. These analytical results will initially be used to assist B771 in developing the building demolition strategy and support future characterization planned in 2003. This was conducted by acquiring approximately 32 subsurface soil samples at 16 locations. The numbers and types of samples, coupled with their specific locations, were collected to determine if contamination existed, that would warrant removal of the buildings foundation for final Decontamination and Decommissioning (D&D) site closure, or whether the foundation footing may be left in place. This report includes Appendices 1 through 4.
<b>B771 A 000158</b> 09/28/2001 1 Pages PUBLIC	YES, ROUTINE Author(s) CROUSE, ARCH	N/A Recipient(s) LEGARE, JOSEPH A.	Permissible to terminate effluent monitoring in Building 771-MAI exhaust stack.

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.
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Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000159</b> 10/04/2001 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C.	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Notification for Removal of Steam Condensate Tanks T107 and T108
<b>B771 A 000160</b> 11/12/2001 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C.	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Discusses Building 771/774 Decommissioning Operations Plan (DOP) Field Modification.
<b>B771 A 000161</b> 11/05/2001 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C.	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Notification for the Removal of Caustic Storage Tanks 176 and 185 (aka Tank 38).
<b>B771 A 000162</b> 01/07/2002 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) ONYSKIW, DENISE M.	Recipient(s) BROTHERS, JAMES	Purpose of Contact: Notification to the Colorado Department of Public Health and Environment (CDPHE) of completion of Worksets No. 60, 64 and 65 and to be counted as a Rocky Flats Cleanup Agreement (RFCA) Milestone Workset. Workset No. 60 consisted of Glovebox 1 North and 1 South. With the completion of Workset No. 60, Building 771 has completed 1, Decontamination and Decommissioning (D&D) Workset for Fiscal Year 2002.
<b>B771 A 000163</b> 01/31/2002 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) SCHIEFFELIN, JOE	Recipient(s) GILBREATH, CHRIS C. LEGARE, JOSEPH A.	Approval of the Closure Description Document for the, Mixed Residue Recovery Incinerator Unit in Building 771.

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

Page: 31 of 59  
Report Date: 02-FEB-05

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000164</b> 04/07/1999 20 Pages PUBLIC	YES, ROUTINE Author(s) HOPKINS, TED A.	RF/RMRS-99-346.UN; TAH-022-99 Recipient(s) NORTH, KARAN	Transmits the attached Closure Description Document (CDD) for Resource Conservation and Recovery Act (RCRA) Closure of Tank and Ancillary Equipment System No. 13 in Building 771, Revision 0, April 7, 1999.
<b>B771 A 000165</b> 05/26/1999 5 Pages PUBLIC	YES, ROUTINE Author(s) HOPKINS, TED A.	RF/RMRS-99-374.UN; TAH-040-99; RF/RMRS-99-346.L Recipient(s) NORTH, KARAN	Pursuant to the Closure Description for Tank and Ancillary Equipment System No. 13 in Building 771 (RF/RMRS-99-346.UN), Rocky Mountain Remediation Services, L.L.C. (RMRS) is submitting the attached Summary Report of Phase I Resource Conservation and Recovery Act (RCRA) Closure Activities, Revision 0.
<b>B771 A 000168</b> 08/11/1999 51 Pages PUBLIC	YES, ROUTINE Author(s) WOLF, H. C.	99-RF-03184; HCW-034-99 Recipient(s) PIZZUTO, VICTOR M.	Transmits the attached Building 771/774 Closure Project Waste Management (WM) Plan, Revision 3, August 1999. The revision incorporates comments on the Applicable or Relevant and Appropriate Requirements (ARARs) required by Kaiser-Hill Company, L.L.C. (K-H) Environmental Compliance.
<b>B771 A 000169</b> 08/31/1999 38 Pages PUBLIC	YES, ROUTINE Author(s) WOLF, H. C.	99-RF-03466; HCW-036-99 Recipient(s) PIZZUTO, VICTOR M.	Transmits the attached Building 771/774 Closure Project Waste Management (WM) Plan, Revision 4, August 1999. The revision deleted the Applicable or Relevant and Appropriate Requirements (ARARs) and based on the changes will be forwarded directly to the Colorado Department of Public Health and Environment (CDPHE).
<b>B771 A 000170</b> 04/08/2002 1 Pages PUBLIC	YES, ROUTINE N/A Author(s) GUNDERSON, STEVE	N/A Recipient(s) SHELTON, DAVID C.	Discusses anonymous letter concerning contamination issues in Buildings 771 and 776.

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 32 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000171</b> 03/26/2002 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C.	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Documents that the Workset No. 94 for Building 774 Rooms 220 and 320 is complete and the Site can count this as a completed Rocky Flats Cleanup Agreement (RFCA) Milestone Workset for FY02.
<b>B771 A 000172</b> 06/28/2002 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) BROTHERS, JAMES	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Documents the walkdown and completion of Worksets No. 61, 77, 91 and 92 in Building 771/774 performed on June 28, 2002.
<b>B771 A 000173</b> 06/18/2002 3 Pages PUBLIC	YES, ROUTINE N/A Author(s) PARSONS, DUANE	Recipient(s) KRAY, EDD	Purpose of Contact: Meeting minutes on disposition of Colorado Department of Public Health and Environment (CDPHE) comments regarding proposed revisions to the Decontamination and Decommissioning Characterization Protocol (DDCP), Reconnaissance Level Characterization Plan (RLCP) and the Pre-Demolition Survey Plan (PDSP) for Building 771 Closure Project. This meeting was held to disposition the CDPHE comments regarding radiological scanning and investigation levels. These comments are a result of the CDPHE review of proposed revisions to Revision 2 of the DDCP, Revision 0 of the RLCP, and Revision 0 of the PDSP. There are no outstanding issues regarding the non-radiological comments. It was agreed that all RLCRs and PDSRs that are currently with CDPHE would be reviewed for concurrence as soon as possible.
<b>B771 A 000174</b> 11/08/2000 1 Pages PUBLIC	YES, ROUTINE N/A Author(s) NOT INDICATED	Recipient(s) DISTRIBUTION	Type 1 Facility Checklist, 771 Project, Facility / Trailer K771N. This Record was under IA-A-000649. Corrected and brought under the Building 771 File, July 17, 2002.



**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

Page: 33 of 59  
Report Date: 02-FEB-05

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000175</b> 10/09/2000 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) COX, DON L.	Recipient(s) NOT INDICATED	Decontamination and Decommissioning (D&D) Facility Characterization Interview Checklist, for K771N, Type 1 Facility, Modular Hot Food Facility. This Record was under IA-A-000627. Corrected to under the Building 771 File, July 17, 2002.
<b>B771 A 000176</b> 09/24/2002 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) BROOKS, MIKE LARSEN, BRIAN D.	Recipient(s) ONYSKIW, DENISE M. JOHANNES, BOB	Purpose of Contact: Discussed comments on the MACTEC Asbestos Abatement Plan Standard Operating Procedure (SOP) for Building 771/774 Revision 1, dated May 6, 2002.
<b>B771 A 000177</b> 10/16/2002 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) BROTHERS, JAMES GILBREATH, CHRIS C.	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Discusses the high pressure waterjet cutter used to size reduce a tank in Building 774 Per Table 9 and approval of Field Modification. Examples of Removal and Size Reduction Techniques of the Rocky Flats Cleanup Agreement Standard Operating Protocol (RSOP) for Facility Component Removal and Size Reduction & Decontamination Activities.
<b>B771 A 000178</b> 08/11/1999 1 Pages PUBLIC	YES, ROUTINE N/A Author(s) CATHEL, ROBERT	Recipient(s) NEWELL, NANCY L.	Purpose of Contact: Discusses the status of Microwave Glovebox (Microbox) in Building 774. The concern was the thirty-six four-liter bottles of mixed waste were unpacked and was determined that the amount exceeded the permitted capacity.
<b>B771 A 000179</b> 05/12/1999 1 Pages PUBLIC	YES, ROUTINE N/A Author(s) CATHEL, ROBERT	Recipient(s) BURBACH, CINDY	Purpose of Contact: Discovery of a container of waste, mercury batteries that exceeded the ninety-day storage limit in Building 771 by two days and were immediately removed.

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

Page: 34 of 59  
Report Date: 02-FEB-05

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000180</b> 02/02/1999 1 Pages PUBLIC	YES, ROUTINE Author(s) LEGARE, JOSEPH A. RAMPE, JOHN	99-DOE-01769 Recipient(s) GUNDERSON, STEVE	Forwards the attached [000015] approved Building 771 Decommissioning Operations Plan (DOP).
<b>B771 A 000181</b> 02/02/1999 1 Pages PUBLIC	YES, ROUTINE Author(s) LEGARE, JOSEPH A. RAMPE, JOHN	99-DOE-01770 Recipient(s) REHDER, TIMOTHY	Forwards the attached [000015] approved Building 771 Decommissioning Operations Plan (DOP).
<b>B771 A 000182</b> 01/07/2002 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) BROTHERS, JAMES	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Documents the walkdown that started on December 27, 2001 with Building 771 and US Department of Energy, Rocky Flats Field Office (DOE/RFFO) regarding completion of Worksets 60, 64, and 65. Colorado Department of Public Health and Environment (CDPHE), DOE, and 771 completed the walkdown on January 7 to validate the Sets were completed. This Contact Record documents that Worksets 60, 64, and 65 are completed and that the Site can count them as completed RFCA Milestone Worksets.
<b>B771 A 000183</b> 01/28/1999 43 Pages PUBLIC	YES, ROUTINE Author(s) HOPKINS, TED A.	TAH-005-99 Recipient(s) CATHEL, ROBERT	Transmits the enclosed Closure Description Document (CDD) for Tank and Ancillary Equipment Systems No. 19 and 20 in Building 771. This document contains a description of the system to be closed the rationale for the selected method of closure, the types of contamination to be addressed and the schedule for closure activities.
<b>B771 A 000184</b> 06/15/2001 1 Pages PUBLIC	YES, ROUTINE Author(s) STEVENS, JEFFREY L.	01-RF-01388; JLS-009-01 Recipient(s) SPRINGER, JOE	Submits the attached [000185] revised Reconnaissance Level Characterization Report (RLCR) Supplement 771 Annex, Stack and Outbuildings, Building 771 Closure Project, Revision 2 dated June 15, 2001 for review and approval. The Supplemental RLCR dated March 19, 2001 has been revised

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

Page: 35 of 59  
Report Date: 02-FEB-05

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000185</b> 06/15/2001 66 Pages PUBLIC	YES, ROUTINE Author(s) NOT INDICATED	Ref: 01-RF-01388; JLS-009-01 Recipient(s) DISTRIBUTION	Reconnaissance Level Characterization Report (RLCR) Supplement 771 Annex, Stack and Outbuildings, Building 771 Closure Project, Revision 2 dated June 15, 2001 for review and approval. The Supplemental RLCR dated March 19, 2001 has been revised to be consistent with the 771 Decommissioning Operations Plan (DOP), which now classify Building 771 Exhaust Tunnel and Stack Type 3 Facilities in the RLCR.
<b>B771 A 000186</b> 04/03/2003 1 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C.	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: The Colorado Department of Public Health and Environment (CDPHE) requested additional radiological survey data for Trailers T771E and T771H and approves the new data provided.
<b>B771 A 000187</b> 06/19/2003 1 Pages PUBLIC	YES, ROUTINE Author(s) LEGARE, JOSEPH A.	03-DOE-00687; 00576-RF-03 Recipient(s) GUNDERSON, STEVE REHDER, TIMOTHY	US Department of Energy, Rocky Flats Field Office (DOE/RFFO) hereby forwards the attached [000188] public comment draft of the Rocky Flats Environmental Technology Site (RFETS/Site) 771 Closure Project Decommissioning Operations Plan (DOP), Modification 5. The DOE intends to release the DOP Modification for a thirty-day Public Comment Period on or about June 19, 2003.
<b>B771 A 000188</b> 06/19/2003 79 Pages PUBLIC	YES, ROUTINE Author(s) NOT INDICATED	Ref: 03-DOE-00687; 00576-RF-03 Recipient(s) DISTRIBUTION	Rocky Flats Environmental Technology Site (RFETS/Site) 771 Closure Project Decommissioning Operations Plan (DOP), Modification 5. The DOE intends to release the DOP Modification for a thirty-day Public Comment Period on or about June 19, 2003. This DOP for the 771 Closure Project applies to buildings with significant contamination or hazards (Type 3 facilities) and buildings without significant contamination or hazards, but in need of decontamination ((Type 2 buildings). The identification of Type 1 facilities and their disposition path are included for information only. This document is the result of a major modification approved in September 2001 of the DOP for the 771 Closure Project

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 36 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000189</b> 06/19/2003 1 Pages PUBLIC	YES, ROUTINE Author(s) GUNDERSON, STEVE	00603-RF-03 Recipient(s) LEGARE, JOSEPH A.	The Colorado Department of Public Health and Environment (CDPHE) has reviewed and approves the Pre-Demolition Survey Report (PDSR) for Building 771 Maintenance Shop, Revision 0 dated June 17, 2003.
<b>B771 A 000190</b> 11/15/1999 4 Pages PUBLIC	YES, ROUTINE Author(s) NESTA, STEVE	SMN-150-99 Recipient(s) PIZZUTO, VICTOR M.	Discusses the National Environmental Policy Act (NEPA) Determination to construct and operate a Security Zone at Building 771. This project includes the installation of a temporary guard shack, and 1,200 feet of temporary fencing around the Building 790 and 771 trailer complex. This project also includes the reestablishment of fencing around Building 771/774 complex, and repairs to the walkway.
<b>B771 A 000191</b> 07/16/2003 1 Pages PUBLIC	YES, ROUTINE Author(s) ONYSKIW, DENISE M.	00666-RF-03 Recipient(s) LEGARE, JOSEPH A.	Transmits the attached [000192] comments from the Colorado Department of Public Health and Environment (CDPHE) on the Building 771 Decommissioning Operations Plan (DOP) Modification 5 dated May 20, 2003.
<b>B771 A 000192</b> 05/20/2003 1 Pages PUBLIC	YES, ROUTINE Ref: 00666-RF-03 Author(s) NOT INDICATED	Recipient(s) DISTRIBUTION	Comments from the Colorado Department of Public Health and Environment (CDPHE) on the Building 771 Decommissioning Operations Plan (DOP) Modification 5.
<b>B771 A 000193</b> 06/06/2003 1 Pages PUBLIC	YES, ROUTINE N/A Author(s) MCCALLISTER, RUSSELL	Recipient(s) KRUCHEK, DAVID	Discusses No Further Accelerated Action (NFAA) warranted for Building 771, opposed to Building 774, where Volatile Organic Compound (VOC) and Americium (Am) and Plutonium (Pu) have been identified.

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 37 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000194</b> 07/30/2003 1 Pages PUBLIC	YES, ROUTINE Author(s) CARNIVAL, GARY J.	N/A Recipient(s) KRUCHEK, DAVID	Purpose of Contact: Discusses the response to questions regarding the Original Process Waste Lines (OPWL) sampling southeast of Building 774 and to provide new information.
<b>B771 A 000195</b> 08/12/2003 1 Pages PUBLIC	YES, ROUTINE Author(s) LEGARE, JOSEPH A.	03-DOE-01006; 00752-RF-03 Recipient(s) GUNDERSON, STEVE	US Department of Energy, Rocky Flats Field Office (DOE/RFFO) forwards the attached [000196] Major Modification Five to the Building 771/774 Closure Project Decommissioning Operations Plan (DOP), dated August 8, 2003, for approval. The formal Public Comment Period was completed on July 18, 2003. Comments from the Colorado Department of Public Health and Environment (CDPHE), the local communities and the public have been addressed by meeting with individuals to discuss details and/or making changes in the document.
<b>B771 A 000196</b> 08/08/2003 114 Pages PUBLIC	YES, ROUTINE Author(s) NOT INDICATED	Ref: 03-DOE-01006; 00752-RF-03 Recipient(s) DISTRIBUTION	Major Modification 5 to the Building 771/774 Closure Project Decommissioning Operations Plan (DOP) dated August 8, 2003. This DOP for the 771 Closure Project applies to buildings with significant contamination or hazards (Type 3 facilities) and buildings without significant contamination or hazards, but in need of decontamination (Type 2 facilities). The identification of Type 1 facilities and their disposition path are included for information only. This document is the result of a major modification approved in September 2001 of the DOP for the 771 Closure Project approved January 1999. This DOP follows the format of the other DOPs and contains additional detail on work activities. This additional detail reflects the advanced state of the 771 decommissioning activities and planning. This DOP includes the following additional information and changes format he original DOP (Revision 0): ?

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

Page: 38 of 59  
Report Date: 02-FEB-05

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000197</b> 08/08/2003 116 Pages PUBLIC	YES, ROUTINE Author(s) FOSS, DYAN NOT INDICATED	Ref: 00819-RF-03 Recipient(s) DISTRIBUTION	Forwards the enclosed 771 Closure Project Decommissioning Operations Plan (DOP) Modification 5, August 8, 2003 - Field modifications include clarifying the endstate, to separate Set 38 into four separate sets and incorporate Under Building Contamination (UBC) remediation and demolition activities. Modifications also consist of Clarifying Section 5.3.2 since tap and drain activities are complete and to update toe DOP with respect to the Modification to RFCA Attachments, approved June 2003.
<b>B771 A 000198</b> 08/25/2003 1 Pages PUBLIC	YES, ROUTINE Author(s) ONYSKIW, DENISE M.	00819-RF-03 Recipient(s) LEGARE, JOSEPH A.	The Colorado Department of Public Health and Environment (CDPHE) approves the 771 Closure Project Decommissioning Operations Plan (DOP) Modification 5 dated August 8, 2003.
<b>B771 A 000199</b> 09/03/2003 2 Pages PUBLIC	YES, ROUTINE Author(s) GILBREATH, CHRIS C. ROBERTS, SARAH	N/A Recipient(s) KRUCHEK, DAVID ONYSKIW, DENISE M.	Purpose of Contact: Discusses the disposition of several materials/wastes that will be generated during decommissioning and demolition activities for Building 771/774 and includes a list of these materials/wastes.
<b>B771 A 000200</b> 09/11/2003 1 Pages PUBLIC	YES, ROUTINE Author(s) RUTHVEN, MARK A.	N/A Recipient(s) KRUCHEK, DAVID	Purpose of Contact: Discusses three additional grab samples that will be taken at the former location of Tanks T14 and T16 outside Building 774 in Individual Hazardous Substance Site IHSS Group 700-4.
<b>B771 A 000203</b> 11/01/1994 24 Pages PUBLIC	YES, ROUTINE Author(s) NOT INDICATED	SW-A-001217 Recipient(s) DISTRIBUTION	9.0 Operational History of Building 771 (Historical Release Report (HRR) November 1994): Building 771 was one of the first four major buildings to be constructed and placed in operation at the Rocky Flats Plant. For the first few years of operation, 771 was the primary facility for plutonium (Pu) operations. By the mid-1950s, it was clear that the space within 771 was inadequate to support all Pu operations

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

Page: 39 of 59  
Report Date: 02-FEB-05

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000204</b> 06/21/2001 120 Pages PUBLIC	YES, ROUTINE N/A Author(s) NOT INDICATED	Recipient(s) DISTRIBUTION	Building 771 and Building 774 Hazardous Characterization Report Building 771 Closure Report, Revision 0 June 12, 2001. This report summarizes the physical, radiological and chemical hazards associated with Buildings 771 and 774.
<b>B771 A 000205</b> 09/16/2003 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C.	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Discusses the demolition of Trailers T771F, T771J, T771K, T771L and T771T. These trailers were included in the Reconnaissance Level Characterization Report (RLCR) Supplement, 771 Annex, Stack and Outbuildings, Building 771 Closure Project, Revision 2 approved on July 12, 2001. These trailers were included in the RLCR AS Type 1 facilities.
<b>B771 A 000206</b> 09/19/2003 1 Pages PUBLIC	YES, ROUTINE 03-DOE-01274; 00874-RF-03 Author(s) LEGARE, JOSEPH A.	Recipient(s) GUNDERSON, STEVE	US Department of Energy, Rocky Flats Field Office (DOE/RFFO) resubmits the attached [000207] Major Modification Five to the Building 771/774 Closure Project Decommissioning Operations Plan (DOP), dated August 8, 2003, for approval. This version incorporates all comments during the approval process.
<b>B771 A 000207</b> 09/19/2003 115 Pages PUBLIC	YES, ROUTINE Ref: 03-DOE-01274; 00874-RF-03 Author(s) NOT INDICATED	Recipient(s) DISTRIBUTION	771 Closure Project Decommissioning Operations Plan (DOP) Modification Five, August 8, 2003. This version has been resubmitted to incorporate all comments during the approval process.
<b>B771 A 000208</b> 09/24/2003 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) BROTHERS, JAMES	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Notification to Colorado Department of Public Health and Environment (CDPHE) of completion of Areas AM-Dismantlement, AF-Dismantlement and AD-Demolition.

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 40 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000209</b> 10/02/2003 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, C.	Recipient(s) ONYSKIW, DENISE M.	<p>Purpose of Contact: The ceiling of the first floor in Building 771 contains a significant amount of embedded unsitrut. The unsitrut was used to support ductwork and other equipment/piping. Numerous attempts have been made to decontaminate the embedded unsiturt. These decontamination techniques were</p> <p>Unsuccessful in removing all fixed contamination. Removing the unistrut prior to demolition is unusually difficult and would result in a considerable risk to the Workers. Colorado Department of Public Health and Environment (CDPHE) agreed to allow the embedded unistrut to remain in-place during demolition, provided an appropriate fixative (e.g., firedam) is applied and the radiological surveys verify the surfaces are at or below the release criteria for removable contamination CDPHE also agreed that following demolition, the concrete/imbedded unistrut matrix be placed within the portion of the Building 771 that will remain in- place provided the unsitrut dose not adversely impact the ability to meet the compaction requirement. The Demolition Plan to be provided to CDPHE will address any necessary controls to mitigate potential radiological concerns.</p>
<b>B771 A 000210</b> 11/05/2003 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C.	Recipient(s) ROBERTS, SARAH ONYSKIW, DENISE M.	<p>Purpose of Contact; A Verbatim Final Survey cannot be performed on the 771/774 roof due to the material type (tar/ gravel), which cannot be readily scanned for surface activity.</p>
<b>B771 A 000211</b> 11/24/2003 1 Pages PUBLIC	YES, ROUTINE N/A Author(s) ROBERTS, SARAH	Recipient(s) ONYSKIW, DENISE M.	<p>Purpose of Contact Building 772, as well as sheds 714A and 717, have been vacated and are destined for demolition or removal. The Reconnaissance Level Characterization Report (RLCR) Supplement, 771 Annex, Stack and Outbuildings, Building 771 Closure Project, Revision 2 was approved on July 12, 2001. Building 772, 714A and 717 were included in</p>



**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000212</b> 06/16/2003 72 Pages PUBLIC	YES, ROUTINE Author(s) NOT INDICATED	N/A Recipient(s) NOT INDICATED	This Decommissioning Operations Plan (DOP) for the 771 Closure Project applies to buildings with significant contamination of hazards (Type 3 facilities) and buildings without significant contamination or hazards, but in need of decontamination (Type 2 buildings.) This document is the result of a major modification approved in September 2001 of the DOP for the 771 Closure Project approved January 1999.
<b>B771 A 000213</b> 07/10/2003 5 Pages PUBLIC	YES, ROUTINE Author(s) NOT INDICATED	Ref: B771-A-000212 Recipient(s) DISTRIBUTION	Rocky Flats Citizen's Advisory Board (CAB) comments regarding the Building 771 Decommissioning Operations Plan (DOP) Modification No. 5
<b>B771 A 000214</b> 07/10/2004 4 Pages PUBLIC	YES, ROUTINE Author(s) NOT INDICATED	Ref: B771-A-000212 Recipient(s) DISTRIBUTION	Rocky Flats Citizen's Advisory Board (CAB) comments regarding the Building 771 Decommissioning Operations Plan (DOP) Modification No. 5 - Recommendation on Long-Term Stewardship Considerations for the 771 DOP mod 5.
<b>B771 A 000215</b> 07/18/2003 7 Pages PUBLIC	YES, ROUTINE Author(s) BROWN, DORIAN	Ref: B771-A-000212 Recipient(s) DISTRIBUTION SCHNEIDER, JOHN	City and County of Broomfield comments regarding the proposed modification (Mod 5) to the Rocky Flats Decommissioning Operations Plan (DOP) for Building 771/774, dated June 19, 2003.
<b>B771 A 000216</b> 07/15/2003 3 Pages PUBLIC	YES, ROUTINE Author(s) ABELSON, DAVID M.	Ref: B771-A-000212 Recipient(s) FOSS, DYAN	Rocky Flats Coalition of Local Governments (RFCLG) comments regarding the 771 Closure Project Decommissioning Operations Plan (DOP) Modification 5.

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 42 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000217</b> 07/15/2003 7 Pages PUBLIC	YES, ROUTINE Author(s) NELSON, AL	Ref: B771-A-000212 Recipient(s) DISTRIBUTION FOSS, DYAN	City of Westminster comments regarding the proposed modifications to the Rocky Flats Decommissioning Operations Plan (DOP) for Building 771/774, dated June 19, 2003 (Mod 5).
<b>B771 A 000218</b> 08/08/2003 115 Pages PUBLIC	YES, ROUTINE N/A Author(s) NOT INDICATED	Recipient(s) NOT INDICATED	In 1996, the US Department of Energy (DOE) US Environmental Protection Agency (EPA), and the Colorado Department of Public Health and Environment (CDPHE) executed the Rocky Flats Cleanup Agreement (RFCA). 1 RFCA is the Federal Facility Compliance Agreement and Consent Order negotiated pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) 2 and Colorado Hazardous Waste Act (CHWA) 3. RFCA provides the regulatory framework for achieving the goals expressed in the Rocky Flats Vision.
<b>B771 A 000219</b> 02/06/2004 2 Pages PUBLIC	YES, ROUTINE 00088-RF-04 Author(s) GUNDERSON, STEVE	Recipient(s) LEGARE, JOSEPH A.	The Colorado Department of Public Health and Environment (CDPHE) Hazardous Material (HM) and Waste Management (WM) Division has reviewed the Environmental Restoration (ER) Rocky Flats Cleanup Agreement Standard Operating Protocol (RSOP) Notification and Closeout Report for Individual Hazardous Substance Site IHSS Group 700-4, dated December 2003. IHSS Group 700-4 includes investigation for possible contamination under and around Building 771 and 774. Based on the information provided, the Division is hereby approving this Notification, Closeout Report, and No Further Accelerated Action (NFAA) determination for IHSS Group 700-4 with the following comments/clarification.

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000220</b> 03/25/2004 2 Pages PUBLIC	YES, ROUTINE Author(s) GILBREATH, CHRIS C. ROBERTS, SARAH	N/A Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Demolition for Building 774, Annex, and Pipe Chase. The following equipment/structural areas will be encapsulated and disposed of as radioactive waste during the B774 demolition.
<b>B771 A 000221</b> 03/24/2004 4 Pages PUBLIC	YES, ROUTINE Author(s) LEGARE, JOSEPH A.	04-DOE-00211; 00150-RF-04 Recipient(s) GUNDERSON, STEVE	Forwards the enclosed Minor Modification 6 to the Building 771/774 Closure Project Decommissioning Operations Plan (DOP) for approval. This minor modification clarifies the implementation of removal of contaminated portions of the building shell, in accordance with the process outlined in the Rocky Flats Cleanup Agreement (RFCA) Standard Operating Procedure (SOP) for Component Removal, Decontamination and Size Reduction Activities.
<b>B771 A 000222</b> 03/24/2004 1 Pages PUBLIC	YES, ROUTINE Author(s) GUNDERSON, STEVE	00157-RF-04 Recipient(s) LEGARE, JOSEPH A.	The Colorado Department of Public Health and Environment (CDPHE) has reviewed and hereby approves Minor Modification 6 to the Building 771/774 Closure Project Decommissioning Operations Plan (DOP), which it received attached to a letter dated March 24, 2004. [See modification under AR B771-A-000221]
<b>B771 A 000223</b> 03/02/2004 2 Pages PUBLIC	YES, ROUTINE Author(s) GILBREATH, CHRIS C.	N/A Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Disposition of Plenums FP-201 and in Building 774. The two remaining plenums in Building 774 (FP-201 and FP-202) are located in Rooms 442 and 341, respectively. The rooms will be surveyed to verify they have met the free-release criteria established in the 771 Closure Project Decommissioning Operations Plan. The plenums will be surveyed to removable contamination is less than 20 dmp/100cm2. The plenums will be removed, reduced and package as radioactive waste.

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000224</b> 02/27/2004 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C. ROBERTS, SARAH	Recipient(s) DISTRIBUTION KRUCHEK, DAVID ONYSKIW, DENISE M.	Purpose of Contact: Survey methodology concurrence for Building 771/774. On February 23, 2004, project personnel met with Colorado Department of Public Health and Environment (CDPHE) representatives to discuss the radiological survey methodology for portions of Building 771/774 that are greater than 6 feet below final grade. Results for Room 102 in 774 were provided to CDPHE. Survey results for the remainder of the 774 basement has also been provided. Based on the methodology and results, CDPHE concurred that those portions >6' below final grade have met the criteria identified in the 771/774 Closure Project Decommissioning Operations Plan Modification 5. Surficial contamination is less than 100 nCi/g. As a result, a flowable fill will be placed within these areas. CDPHE representatives concurred with this activity.
<b>B771 A 000225</b> 03/25/2004 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C.	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Demolition of Building 774, Annex, and Pipe Chase, the following equipment/structural areas will be encapsulated and disposed of as radioactive waste during the B774 demolition.
<b>B771 A 000226</b> 02/27/2004 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C.	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Survey methodology concurrence for Building 771/774. On February 23, 2004, project personnel met with Colorado Department of Public Health and Environment (CDPHE), representatives to discuss the radiological survey methodology for portions of Building 771/774 that are greater than 6' below final grade. Results for Room 102 in Building 774 were provided to CDPHE. Survey results for the remainder of the Building 774 basement have been provided. Based on the methodology (i.e., surveys and in-situ gamma measurements) and results, CDPHE concurred that those portions >6' below final grade in Building 774 (RM. 102, 103 and Old Tank 40) have met the criteria identified in the 771/774 Closure Project.

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 45 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000227</b> 03/02/2004 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C.	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Disposition of Plenums FP-201 and FP-202 in Building 774. The two remaining plenums in Building 774 (FP-201 and FP-202) are located in Rooms 441 and 341, respectively. The rooms will be surveyed to verify they have met the free-release criteria established in the 771 Closure Project Decommissioning Operations Plan. The plenums will be surveyed removable contamination is less than 20 dpm/100cm <sup>2</sup> . The plenums will be removed, sized reduced and package as radioactive waste.
<b>B771 A 000228</b> 12/17/2003 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C.	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Notification of completion of Area Authorization Basis (AB), and AG dismantlement and Area AC and AE decontamination. This Contact Record documents the walkdown conducted on December 17, 2003 with Colorado Department of Public Health and Environment (CDPHE), US Department of Energy (DOE), Building 771 regarding completion of dismantlement activities in Area AB and AG and decontamination in Area AC and AE in accordance with the 771/774 Decommissioning Operations Plan (DOP).
<b>B771 A 000229</b> 12/09/2003 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C.	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Removing Room 283 Building Exhaust Fans Following Building Demolition. The Building 771 Exhaust Fans (located in Room 283 of Building 771), will remain in place during building demolition. Subsequently, the fans will be removed from the debris pile and packaged in appropriate waste containers.
<b>B771 A 000230</b> 12/09/2003 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C.	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Clarification to Contact Record September 3, 2003. As part of the Building 771 Contact Record dated September 9, 2003, the path forward for penetrations that remain in decontaminated walls within 6' of final grade was discussed. In this discussion, it is stated that the piping/sleeve will be removed. However, the pipe/conduit/sleeve will not be removed for non-process systems and piping, such as fire protection, conduit, roof

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 46 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000231</b> 11/05/2003 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C. ROBERTS, SARAH	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Demolition of Room 220/320, Building 774. As part of the consultative process, the demolition of Room 220 and 320 of B774 was discussed with Colorado Department of Public Health and Environment (CDPHE). The exterior of the south wall of Room 220 is common to the underground radioactive waste storage tanks that were remediated in October of this year. This wall is contaminated up to 17,000dpm/100cm fixed alpha activity. Because hydrolyzing this wall could introduce additional radioactive contamination into the surrounding soil, Room 220, will be demolished and dispositioned as radioactive waste. Room 320, which is located directly above Room 220 and FP-203 (located in Room 320) will also be demolished and dispositioned as radioactive waste.
<b>B771 A 000232</b> 01/05/2003 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C. ROBERTS, SARAH	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Pre-Demolition of Building 771/774. A verbatim Final Survey cannot be performed on the 771/775 roof due to the material type (tar/gravel), which cannot be readily scanned for surface activity.
<b>B771 A 000233</b> 10/02/2003 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C.	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Disposition of Embedded Unistrut. The ceiling of the first floor in Building 771 contains a significant amount of embedded unistrut (approximately 5,00 linear feet). The unistrut was used to support ductwork and other equipment/piping. All ductwork and equipment/piping has been removed. The overall volume of the 1 3/4" embedded unistrut is about 106 ft (which includes the internal void). The volume of concrete/unistrut in question is approximately 17,700 ft, (which does not include columns). As result, embedded unistrut make up less than 0.6% of the matrix.

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

Page: 47 of 59  
Report Date: 02-FEB-05

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000234</b>	YES, ROUTINE N/A		
09/16/2003	Author(s)	Recipient(s)	
2 Pages	GILBREATH, CHRIS C.	ONYSKIW, DENISE M.	
PUBLIC			Purpose of Contact: Disposition of Building 771 Trailers. Trailers 771F, 771J, 771K, 771L and 771T, have been vacated and are destined for demolition within the next few months. The Reconnaissance Level Characterization Report (RLCR), Supplement, 771 Annex, Stack and outbuildings, Building 772 Closure Project, Revision 2 was approved on July 12, 2001. These trailers were included in the RLCR as Type 1 facilities. Given these facilities remained in use following the radiological surveys provided in the RLCR, CDPHE's concurrence letter requires additional radiological survey data be provided, as prior to closure/demolition. CDPHE concurred that these trailers can be demolished following the completion and transmittal of verification.
<b>B771 A 000235</b>	YES, ROUTINE N/A		
09/05/2003	Author(s)	Recipient(s)	
1 Pages	GILBREATH, CHRIS C.	ONYSKIW, DENISE M.	
PUBLIC			Purpose of Contact: Radiological Surveys for Guard Post 773. Guard Post 773 has been vacated and is destined for demolition. The Reconnaissance Level Characterization Report (RLCR), Supplement, 771 Annex, Stack and Outbuildings, Building 771 Closure Project, Revision 2 was approved on July 12, 2001. Guard Post 773 was included in the RLCR as Type 1 Facility remained in use following the radiological surveys provided in the RLCR, CDPHE's concurrence letter requires additional radiological survey data be provided, as necessary, prior to closure/demolition. As a result, additional radiological survey data was provided to CDPHE, on September 5, 2003. CDPHE concurred that the additional radiological data provided is sufficient to supplement the previous data and function as the pre-demolition survey.
<b>B771 A 000236</b>	YES, ROUTINE N/A		
09/03/2003	Author(s)	Recipient(s)	
2 Pages	GILBREATH, CHRIS C.	KRUCHEK, DAVID	
PUBLIC	ROBERTS, SARAH	ONYSKIW, DENISE M.	Purpose of Contact: D&D Clarification Discussion. As part of the consultative process, the disposition of several materials/wastes and the subsequent surveys were discussed with Colorado Department of Public Health and Environment (CDPHE). These wastes will be generated during

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 48 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000237</b> 08/25/2003 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C. ROBERTS, SARAH	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Contaminants of Concern for Building 771/774 Structural, Floors/Walls/ Ceilings. In-situ gamma spectroscopy data, as well as paint and concrete sample data from highly contaminated areas, indicate that weapons-grade plutonium (WPG), isotopes are the contaminants of concern in and on the Building 771 and 774 structure (specifically Pu-239/240 and AM-241, which represent >99% of the total alpha activity for 34 years old WGP).
<b>B771 A 000238</b> 11/14/2003 5 Pages PUBLIC	YES, ROUTINE N/A Author(s) NOT INDICATED	Recipient(s) DISTRIBUTION	Purpose of Contact: Building 771/774 Closure Project Characterization Plan for Areas Greater than Six Feet Below Final Grade. This Characterization Plan identifies the characterization and verification approach for portions of Building 771/774 that contain fixed areas of contamination. As stated in the 771 Closure Project Decommissioning Operations Plan Modification 5 (DOP), the objective of this characterization plan is to ensure that the nature and extent of contamination is adequately defined and that the material that will be left in place is consistent with the framework for contaminated soil. The areas that have not been decontaminated to the unrestricted release criteria and will remain in place after backfilling will be characterization in accordance with this project-specific characterization package prepared in accordance with the Decontamination and Decommissioning (D&D). The slab and structure within 0 to 6 feet of the final proposed grade will be decontaminated to the unrestricted release criteria and 0 to 3.5 feet will be removed during demolition.
<b>B771 A 000239</b> 08/25/2003 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C.	Recipient(s) GUNDERSON, STEVE	Purpose of Contact: During negotiations of the Building 771/774 Decommissioning Operations Plan (DOP), Modification (#5), Clarification, language regarding surficial contamination that could remain in place was agreed upon and inserted into the DOP with the concurrence of Colorado Department of Public Health and Environment (CDPHE). The



ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 49 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000240</b> 03/31/2004 2 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C. SEYFERT, WARREN	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Notification of completion of Area AB (Annex) structural Decontamination and Area AH (2nd Floor) Dismantlement in Building 771. This Contact Record documents the walkdown conducted on the 31, 2004 with Kaiser-Hill Company, L.L.C. (K-H), US Department of Energy (DOE), and Colorado Department of Public Health and Environment (CDPHE), regarding completion of Area AB decontamination and Area AH dismantlement in accordance with the Building 771/774 Decommissioning Operations Plan (DOP).
<b>B771 A 000241</b> 04/19/2004 1 Pages PUBLIC	YES, ROUTINE N/A Author(s) ROBERTS, SARAH	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Radiological Surveys for Building 715. Building 715, the structure that housed the diesel emergency generator 1 for Building 771, has been vacated and are destined for demolition or removal. The Reconnaissance Level Characterization Report (RLCR) Supplement, 771 Annex, Stack and Outbuildings, Building 771 Closure Project, Revision 2 was approved on July 12, 2001. Building 715 was included in the RLCR as Type 1 facility. Given that the facility remained in use following the radiological surveys provided in the RLCR, Colorado Department of Public Health and Environment (CDPHE) concurrence letter requires additional radiological survey data be provided, as necessary, prior to closure/demolition. As result, additional radiological survey data was provided to CDPHE, on April 19, 2004. CDPHE concurred that the additional radiological data provided is sufficient to the previous data and function as the pre-demolition survey.
<b>B771 A 000242</b> 04/26/2004 1 Pages PUBLIC	YES, ROUTINE 04-DOE-00313 Author(s) LEGARE, JOSEPH A.	Recipient(s) GUNDERSON, STEVE	Forwards: The purpose of this letter is to transmit the Pre-Demolition Survey Reports (PDSRs) for the Building 771/774. Building 774, 1973 Addition, the building 771/774 Roof, and the Building 771/774 Exterior, for Colorado Department of Public Health and Environment (CDPHE), concurrence. The Rocky Flats Project Office (RFPO), has reviewed these

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

Page: 50 of 59  
Report Date: 02-FEB-05

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000243</b> 04/26/2004 1 Pages PUBLIC	YES, ROUTINE Author(s) LEGARE, JOSEPH A.	04-DOE-00313; 00189-RF-04 [000244] Recipient(s) GUNDERSON, STEVE	Forwards: the attached [000244] letter is to transmit the Pre-Demolition Survey Reports (PDSRs) for the Building 774 1973 Addition, the Building 771/774 Roof, and the Building 771/774 Exterior. The Rocky Flats Project Office (RFPO) has reviewed these PDSRs and determined that the Building 774 1973 Addition can be released for demolition.
<b>B771 A 000244</b> 04/26/2004 178 Pages PUBLIC	YES, ROUTINE Author(s) NOT INDICATED	04-DOE-00313; 00189-RF-04 Recipient(s) DISTRIBUTION	A Pre-Demolition Survey (PDS) was performed to enable compliant disposition and waste management of the Building 774 1973 Addition. Because this Type 3 building will be demolished, the characterization was performed in accordance with the Pre-Demolition Survey Plan (PDSP) (MAN-127-PDSP)..
<b>B771 A 000246</b> 05/06/2004 1 Pages PUBLIC	YES, ROUTINE Author(s) GUNDERSON, STEVE	00213-RF-04 Recipient(s) LEGARE, JOSEPH A.	Forwards: The Colorado Department of Public Health and Environment (CDPHE) Hazardous Material Waste Management Division has reviewed the Pre-Demolition Survey Report (PDSRs) for Building 774 1973 Addition, Revision 0 dated April 14, 2004: the Building 771/774 Roof, Revision 1 dated April 7, 2004; and the Building 771/774 Exterior, Revision 0 dated March 30, 2004.
<b>B771 A 000247</b> 05/11/2004 6 Pages PUBLIC	YES, ROUTINE Author(s) LEGARE, JOSEPH A.	04-DOE-00339; 00219-RF-04 Recipient(s) DISTRIBUTION GUNDERSON, STEVE	This letter forwards the enclosed Independent Verification and Validation Report for the Building 774, 1973 Addition. The IVV was accomplished by the Oak Ridge Institute for Science and Education (ORISE) as an independent documentation and data review of the Pre-Demolition Survey for Building 774, 1973 Addition. A Type A verification was completed due to the minimal potential for residual radioactivity in the areas of the building to be free released.
<b>B771 A 000248</b> 08/08/2003 115 Pages PUBLIC	YES, ROUTINE Author(s) NOT INDICATED	N/A Recipient(s) DISTRIBUTION	The Rocky Flats Environmental Technology Site (RFETS/Site) Closure Project for Decommissioning Operations Plan (DOP) Modification 5. This DOP for the 771 Closure Project applies to buildings with significant contamination or hazards (Type 3 facilities) and buildings

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 51 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000249</b> 04/28/2004 2 Pages PUBLIC	YES, ROUTINE Author(s) ROBERTS, SARAH	N/A Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: The Survey of Soil following Building 774, Annex, and Pipe Chase Demolition. Because fixed radiological contamination is present on the Building 774, Annex and 771/774. Pipe Chase surfaces, a follow-up survey of the underlying soil shall be performed following demolition. The following criteria shall be applied to flag area that may require additional removal and/or sampling.
<b>B771 A 000250</b> 06/19/2004 1 Pages PUBLIC	YES, ROUTINE Author(s) GUNDERSON, STEVE	00265-RF-04 Recipient(s) LEGARE, JOSEPH A.	RE: Pre-Demolition Survey Report (PDSR) for Building 771 Exhaust Stack Approval. The Colorado Department of Public Health and Environment (CDPHE), Hazardous Material, and Waste Management Division has reviewed the PDSR for Building 771 Exhaust Stack, Revision 0 dated June 9, 2004, and PDSR Addendum for the Exhaust Stack, Revision 0 dated June 18, 2004. Based on the information contained in this PDSR, and the results of the previously performed investigation, which demonstrate that the entire stack meets the unrestricted release criteria, CDPHE, are hereby approving the PDSR for the Building 771 Exhaust Stack.
<b>B771 A 000251</b> 05/26/2004 2 Pages PUBLIC	YES, ROUTINE Author(s) GILBREATH, CHRIS C.	N/A Recipient(s) GUNDERSON, STEVE ONYSKIW, DENISE M.	Purpose of Contact: Building 771 Demolition Activities. Numerous attempts have been made to decontaminate interior surfaces within Building 771. Significant quantities of contamination have been removed as result of these activities.
<b>B771 A 000252</b> 05/12/2004 1 Pages PUBLIC	YES, ROUTINE Author(s) GIBBS, FRANK E.	N/A Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Building 771 Decommissioning Operations Plan (DOP) Field Modification. Two minor clarifications to the 771 Closure Project Decommissioning Operations Plan (DOP) were discussed with Colorado Department of Public Health and Environment (CDPHE).

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 52 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000253</b> 07/12/2004 1 Pages PUBLIC	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C.	Recipient(s) ONYSKIW, DENISE M.	Purpose of Contact: Demolition of the East Portion of Area AA (the former cafeteria) is constructed primarily of corrugated metals (specifically, the roof and north and east walls). Following the removal of the walls and ceiling, surveys will be performed on the remaining slab. The slab will not be demolished until Colorado Department of Public Health and Environment (CDPHE) has reviewed and approved the Pre-Demolition Survey Report (PDSR) for this area.
<b>B771 A 000254</b> 07/12/2004 1 Pages PUBLIC	YES, ROUTINE 04-DOE-00506; 00307-RF-04 Author(s) LEGARE, JOSEPH A.	Recipient(s) GUNDERSON, STEVE	Forwards: The purpose of this letter is to transmit for Colorado Department of Public Health and Environment (CDPHE) concurrence the Pre-Demolition Survey Report (PDSRs) for the Building 771 Locker Room Area (AC), [000256], the Building 771 Administration Building (West), [000257], the Indirect/Direct Evaporative Cooling (IDEC) [000258], Building and the Building 775 (Sanitary Life Station) and Concrete Pads (Diesel Tanks and Building 716), [000259]. The Rocky Flats Project Office (RFPO) has reviewed these PDSRs and determined that the corresponding areas of Building 771 can be released for demolition.
<b>B771 A 000255</b> 07/14/2005 1 Pages PUBLIC	YES, ROUTINE 00305-RF-04 Author(s) GUNDERSON, STEVE	Recipient(s) LEGARE, JOSEPH A.	RE: The Colorado Department of Public Health and Environment (CDPHE) Hazardous Material Waste Management Division has reviewed the Pre-Demolition Survey Report (PDSRs) for Building 771 Administration Building (West), Locker Room Area (AC), and Indirect/Direct Evaporative Cooling Building (IDEC), Revision 1 dated July 12, 2004 (received on July 14, 2004). Based on the information contained in these PDSRs are hereby approving the PDSRs for the Building 771 Administration Building (West), the Building 771 Locker Room Area, and the B771 Indirect/Direct Evaporative Cooling Building.

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.
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Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000256</b> 07/12/2004 65 Pages PUBLIC	YES, ROUTINE Author(s) LEGARE, JOSEPH A.	04-DOE-00506; 00307-RF-04; [000254] Recipient(s) GUNDERSON, STEVE	The Rocky Flats Environmental Technology Site (RFETS/Site) Pre-Demolition Survey Report (PDSR) for Building 771 Locker Room Area (AC). A Pre-Demolition Survey was performed to enable compliant disposition and Waste Management of the Building 771 Locker Room Area (referred to herein as Area AC). Because this Type 3 Building will be demolished. The results of this survey shall demonstrate that Area (AC) meets the unrestricted release limits specified in the site PDSP. Building surfaces characterized as part of this Pre-Demolition Survey (PDS) include interiors surface of Area (AC).
<b>B771 A 000257</b> 07/12/2004 38 Pages PUBLIC	YES, ROUTINE Author(s) LEGARE, JOSEPH A.	04-RF-00506; 00307-RF-04; [000254] Recipient(s) GUNDERSON, STEVE	A Pre-Demolition Survey (PDS) was performed to enable compliant disposition and Waste Management of the West Side of the Building 771 Administration Area (referred to herein as Area AA West). Because this Type 3 Building will be demolished, the characterization was performed in accordance with the Pre-Demolition Survey Plan (PDSP) (MAN-127-PDSP). The results of this survey shall demonstrate that Area AA West meets the unrestricted release limits specified in the site PDSP.
<b>B771 A 000258</b> 07/12/2004 45 Pages PUBLIC	YES, ROUTINE Author(s) LEGARE, JOSEPH A.	04-DOE-00506; 00207-RF-04; [000254] Recipient(s) GUNDERSON, STEVE	A Pre-Demolition Survey Report (PDSR) was performed to enable compliant disposition and Waste Management of the Building 771 Indirect/Direct Evaporative Cooling Building (IDEC). Because this Type 3 building will be demolished, the characterization was performed in accordance with the Pre-Demolition Survey Plan (MAN-127-PDSP). The results of this survey shall demonstrate that the IDEC meets the unrestricted release limits specified in the site PDSP. Building surfaces characterized as part of this PDS include interiors of the IDEC.

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

Page: 54 of 59  
Report Date: 02-FEB-05

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000259</b> 07/07/2004 37 Pages PUBLIC	YES, ROUTINE Author(s) LEGARE, JOSEPH A.	04-DOE-00506; 00307-RF-04; [000254] Recipient(s) GUNDERSON, STEVE	A Pre-Demolition Survey Report (PDSR) was performed to enable compliant disposition and Waste Management of Building 775 (Building 771 Sanitary Lift Station), and three exterior concrete pads (under Building 716 and Tank 21-A, and over Diesel Underground Storage Tank UST Tanks 192 and 193), (referred to herein as B716 pad and Diesel Tank Pads). Because these Type 1 and 2 areas will be demolished, the characterization was performed in accordance with the Pre-Demolition Survey Plan (MAN-127-PDSP). The results of this survey shall demonstrate that Building 775 and B716 and Diesel Tank Pads meet the unrestricted release limits specified in the site PDSP. Structural surfaces characterized as part of this PDS include the interior and exterior surfaces of the concrete structure over Building 775, and the exposed surfaces of the B716 and Diesel Tank concrete pads.
<b>B771 A 000260</b> 07/27/2004 1 Pages PRELIM	YES, ROUTINE Author(s) LEGARE, JOSEPH A.	04-DOE-00552; 003171-RF-04; [000261] Recipient(s) GUNDERSON, STEVE	Transmit; the attached [000261] purpose of this letter is to transmit for Colorado Department of Public Health and Environment (CDPHE) the Pre-Demolition Survey Report (PDSR) for Building 774 East dock Slab. The Rocky Flats Project Office (RFPO) has reviewed this PDSR and has determined that the Building 774 East Dock Slab can be released for demolition. CDPHE support to accomplish the closure and removal of Building 771/774 in a safe manner is greatly appreciated.
<b>B771 A 000261</b> 07/19/2004 32 Pages PRELIM	YES, ROUTINE Author(s) LEGARE, JOSEPH A.	04-DOE-04; 00317-RF-04 Recipient(s) GUNDERSON, STEVE	A Pre-Demolition Survey (PDS) was performed to enable compliant disposition and Waste Management of the Building 774 East Deck Pad. Because this Type 3 area will be demolished, the characterization was performed in accordance with the Pre-Demolition Survey Plan (PDSP) (MAN-127-PDSP). The results of this survey shall demonstrate that Building 774 East Dock Pad meet the unrestricted release limits specified in the site PDRP.

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 55 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000262</b> 07/29/2004 1 Pages PRELIM	YES, ROUTINE Author(s) GUNDERSON, STEVE	00324-RF-04 Recipient(s) LEGARE, JOSEPH A.	The Colorado Department of Public Health and Environment (CDPHE), Hazardous Material Waste Management Division has reviewed the Pre-Demolition Survey Report (PDSR) for Building 774 East Dock Slab, Revision 0 dated July 19, 2004. This PDSR was received on July 29, 2004. Based on the information contained in this PDSR, CDPHE are hereby approving the PDSR for the Building 774 East Dock Slab.
<b>B771 A 000263</b> 08/18/2004 2 Pages PRELIM	YES, ROUTINE Author(s) ROBERTS, SARAH	N/A Recipient(s) KRUCHEK, DAVID ONYSKIW, DENISE M.	Purpose of Contact: The pre-demolition survey of the Building 770 (Home Depot) slab has identified several areas of fixed alpha contamination. Fixed contamination levels range from 80 to 55, 000 dmp/100 cm, with an average of 700 dmp/100 cm2. No removable contamination is present. As a result, the slab will be package as radiological waste. A fixative will be applied to the slab prior to removal. Air sampling shall be performed in the work area to assure airborne levels do not exceed 0.3 Derived Air Concentration (DAC). Job coverage survey shall also be performed to assure that there is no spread of contamination during demolition.
<b>B771 A 000264</b> 09/14/2004 1 Pages PRELIM	YES, ROUTINE Author(s) GUNDERSON, STEVE	00411-RF-04 Recipient(s) LEGARE, JOSEPH A.	The Colorado Department of Public Health and Environment (CDPHE), Hazardous Material Waste Management Division has reviewed the Pre-Demolition Survey Report (PDSRs) for Building 771 Area AE (Revision 1 dated August 31, 2004), and Area AH West (Revision 1, dated August 31, 2004). The ultimate removal of the remaining contamination that exist within Area AE and AH West and allowing recycling of as much of the concrete that meets the free-release criteria as possible, as inherent difficulties with performing these PDSs to appropriate PDSP requirements, (CDPHE), are hereby approving the PDSRs for Building 771 Areas AE and AH West.

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

Page: 56 of 59  
Report Date: 02-FEB-05

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000265</b> 09/21/2004 1 Pages PRELIM	YES, ROUTINE Author(s) LEGARE, JOSEPH A.	00420-RF-04; 04-DOE-00711; 000264; 000266; 000267 Recipient(s) GUNDERSON, STEVE	Forwards/submit the attached [000266;000267]. The purpose of this letter is to transmit for Colorado Department of Public Health and Environment (CDPHE) concurrence the Pre-Demolition Survey Report (PDSRs) for the Building 771 Area AF, and Building 771 Area AH (East). The Rocky Flats Project Office (RFPO) has reviewed the PDRSs and determined that the corresponding areas of Building 771 can be released for demolition.
<b>B771 A 000266</b> 09/13/2004 109 Pages PRELIM	YES, ROUTINE Author(s) LEGARE, JOSEPH A.	00420-RF-04; 04-DOE-00711; 000265;000267 Recipient(s) GUNDERSON, STEVE	A Pre-Demolition Survey (PDS) was preformed to enable compliant disposition and Waste Management (WM) of the East Side of Building 771 First Floor (Area AF). Because of this Type 3 building will be demolished, the characterization was performed in accordance with the Pre-Demolition Survey Plan (PDSP). (MAN-127-PDSP). The results of this survey shall demonstrate that the structural concrete to be used for fill material meets the unrestricted release limits specified in the site PDSP. The results of this survey also demonstrate that major portions of Areas AF do not meet the unrestricted release limits. These areas shall be segregated and packaged as radiological waste during building demolition. Building surfaces characterized as part of this PDS include the interior surfaces of the east half of the Building 771 First Floor (within six feet of the final grade).
<b>B771 A 000267</b> 09/13/2004 109 Pages PRELIM	YES, ROUTINE Author(s) LEGARE, JOSEPH A.	00420-RF-04; 04-DOE-00711; [000264];00265;00266 Recipient(s) GUNDERSON, STEVE	A Pre-Demolition Survey (PDS) was preformed to enable compliant disposition and Waste Management of the east side of Building 771 Second Floor (AH East). Because this Type 3 building will be demolished, the characterization was preformed in accordance with the Pre-Demolition Survey Plan (PDSP) (MAN-127-PDSP). The results of this shall demonstrate that the structural concrete to be used for fill material meets the unrestricted released limits specified in the PDSP. The results of this survey also demonstrate that major portion of Area AH (East) do not meet unrestricted release



**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERY**

Page: 57 of 59  
Report Date: 02-FEB-05

**771 AR INDEX**

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
B771 A 000268 09/21/2004 2 Pages PRELIM	YES, ROUTINE Author(s) GUNDERSON, STEVE	00428-RF-04; [000265] Recipient(s) LEGARE, JOSEPH A.	The Colorado Department of Public Health and Environment (CDPHE) Hazardous Material and Waste Management Division has reviewed the Pre-Demolition Survey Report (PDSRs) for Building 771 Area AF (Revision 0 dated September 13, 2004), US Department of Energy (DOE) letter regarding these PDSRs was received by fax on September 21, 2004. Although these PDSRs provided for CDPHE approval (with contaminated and free-release areas interspersed); based on the information contained in these PDSRs as well as inherent difficulties with performing these Pre-Demolition Survey (PDS) requirements, CDPHE are here by approving the PDSRs for Building 771 Areas AF and AH East.
B771 A 000269 10/14/2004 1 Pages PRELIM	YES, ROUTINE Author(s) LEGARE, JOSEPH A.	04-DOE-00777; 00478-RF-04 Recipient(s) GUNDERSON, STEVE	Forwards the attached [000270] Pre-Demolition Survey Report (PDSR) for Building 771 Administration Building (East) for CDPHE concurrence. The Rocky Flats Project Office has reviewed this PDSR and has determined that concrete from the Administration Building (East) can be demolished and recycled as backfill.
B771 A 000270 09/29/2004 46 Pages PRELIM	YES, ROUTINE Author(s) NOT INDICATED	Ref: 04-DOE-00777; 00478-RF-04 Recipient(s) GUNDERSON, STEVE	Pre-Demolition Survey Report (PDSR) for Building 771 Administration Building (East) (a.k.a. Area AA East) Revision 0, September 29, 2004. A PDS was performed to enable compliant disposition and waste management of the east side of the Building 771 Administration Area (also referred to as Area AA East). Based upon the results of this PDSR, Area AA East meets the unrestricted release limits specified in the site Pre-Demolition Survey Plan. This structure can be demolished and the waste managed as PCB Bulk Product waste or as sanitary waste, and the concrete can be used for backfill on-site per the RFCA RSOP for Recycling Concrete.

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 58 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000271</b> 10/20/2004 2 Pages PRELIM	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C.	Recipient(s) KRUCHEK, DAVID	Purpose of Contact: Disposition of Building 771 Rebar. A significant quantity of rebar exists within the 771 concrete structure. Demolition activities were initiated on the structure on September 15, 2004. Given that some of the rebar was embedded within concrete with residual radioactive contamination, the rebar will be dispositioned as low-level radioactive waste. The State agreed with the stated approach.
<b>B771 A 000272</b> 10/26/2004 1 Pages PRELIM	YES, ROUTINE N/A Author(s) GILBREATH, CHRIS C.	Recipient(s) KRUCHEK, DAVID	Purpose of Contact: Verification Survey - Area AA Eastside. As a requirement of CDPHE's October 20, 2004 approval letter entitled Pre-Demolition Survey Report for Building 771 Administration Building (East) - Approval, the project must provide a verification survey for this area once all ongoing activities have ceased. The project has terminated all activities related to this area. A verification survey has been completed and delivered to CDPHE. Results of this verification survey confirm that the surface of this slab meets the unrestricted release levels as previously determined in the PDSR for Area AA. As a result, this area can be dispositioned accordingly. The State agreed the requirements of the approval letter had been met.
<b>B771 A 000273</b> 10/20/2004 1 Pages PRELIM	YES, ROUTINE 00502-RF-04 Author(s) GUNDERSON, STEVE	Recipient(s) LEGARE, JOSEPH A.	The Colorado Department of Public Health and Environment (CDPHE) Hazardous Material (HM) and Waste Management (WM) Division has reviewed the Pre-Demolition Survey Report (PDSR) for Building 771 Administration Building (East), also identified as the B771 Administration Area, or Area AA; Revision 0 dated September 20, 2004. This PDSR was received on October 19, 2004. Based on the information contained in this PDSR Colorado Department of Public Health and Environment (CDPHE) are hereby approving the PDSR for Building 771 Administration Building (East).

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
CERCLA ADMINISTRATIVE RECORD - GENERAL QUERYPage: 59 of 59  
Report Date: 02-FEB-05

## 771 AR INDEX

There are 232 records in this set and a total of 5431 pages.

Doc. No. / Date	Routine	Internal Code	Title / Subject
<b>B771 A 000274</b> 06/26/2003 2 Pages PRELIM	YES, ROUTINE Author(s) LARSEN, BRIAN D.	BLD-018-03 Recipient(s) GILES, STUART	Provides MACTEC Inc. with a copy of the Pre-Demolition Survey Report (PDSR) for the Building 771 Maintenance Shop, along with the approval letter from the Colorado Department of Public Health and Environment (CDPHE).
<b>B771 A 000275</b> 06/17/2003 54 Pages PRELIM	YES, ROUTINE Author(s) NOT INDICATED	N/A Recipient(s) LARSEN, BRIAN D.	Pre-Demolition Survey Report (PDSR) for the Building 771 Maintenance Shop, dated June 17, 2003. A Pre-Demolition Survey was performed to enable compliant disposition and waste management of this Type 3 facility.
<b>B771 A INFO</b> 01/01/1900 0 Pages PUBLIC	YES, ROUTINE Author(s) NOT INDICATED	N/A Recipient(s) FILE	Information Only Entry: See the Building 771/774 Administrative Record (AR) for documents regarding this entire Cluster. The following buildings and structures presently make up the 771/774 Cluster: 262, 714, 714A, 714B, 715, 716, 717, 728, 770 771 771A, 771B, 771C, 772/772A, 773, 774, 775, T771A through T771H, and T771J through T771L. Building 771, which began operations in 1953, housed five major groups: Plutonium Recovery, Plutonium Special Recovery, Plutonium Chemistry, Plutonium Metallurgy Research and Analytical Laboratory.